BIM CHAMPION



Engr. RACHEL ROSAS ALCANTARA

PMP-PMI, ISO-19650 BIM Project and Asset Information Professional-BSI CPEM-ASEM, Lean Sig Sigma-IASSC, Autodesk Certified Professional,

DOM: WHITH

Path to BIM Career

BIM Report

- About Me
- My Career Synopsis
- Qualification, Certifications and Affiliations
- My Engineering professional Journey
- **D** Becoming an APEC Engineer
- My Advance Level Engineering Profile

About Me Civil Engineer - BIM Report



Engineer

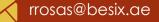
I'm Rachel Rosas Alcantara

Rizal, Philippines

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

University of Rizal System

- Building Information Management,
- Virtual Digital Construction,
- BIM Manager
 - Engineer and BIM enthusiast. I use my digital talents to create unique solutions that improve engineering projects' sustainability performance and suit project requirements.



📞 +971 *5*5 258 7146 (UAE)

BIM Champion

My Career Synopsis Engr. Rachel Rosas Alcantara

EXPERIENTIAL LEARNING

Engineer with over 12 years of experience, proficient in project management, and utilizes (BIM) and Virtual Digital Construction Engineering (VDCE) both in the Design and Construction Phases of the Project. This includes Innovative megaprojects Middle East, Southeast Asia, and Europe, and they range from skyscrapers and stadiums to embassies and hospitals to metro stations bridges, and LNG terminals.

HIGHLIGHTS

- ✓ Design and Build of numerous mega projects amounting to \$ 2.60 Billion combined worth.
- Obtained certifications for numerous training programs and met various Engineering Specialties
- Awardee to the TFT Watchlist 2024: Top Engineers and Architects in the Middles East with over hundreds of entries
- ✓ Shortlisted in the Middle East Construction Technology Award 2023 with over 200+ original entries



SKILLS

- ✓ Corporate BIM standardization and Auditor
- Innovation Specialist
- Subcontractor relations, Management, and Negotiation
- ✓ Employee and Engineering Society

Training and Development

QUALIFICATIONS

- ✓ MSc in Construction Management, 2023
- ✓ Polytechnic University of the Philippines
- BSc in Civil Engineering, 2011
 University of Rizal System
- Specialization
 Building Information Management
 Virtual Design and Construction
 Auditor

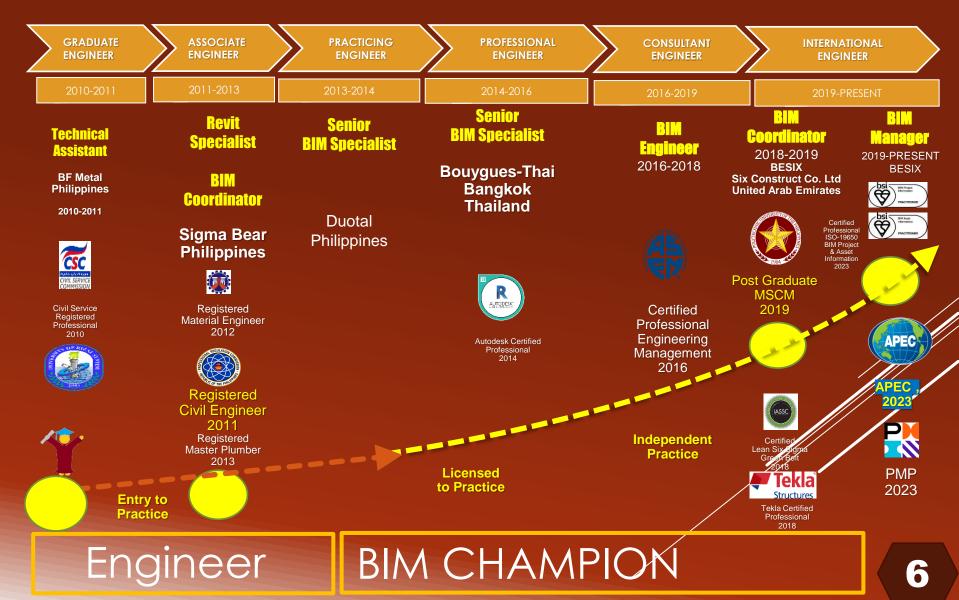
CERTIFICATIONS

- Certified Civil Service Professional
 2010, CSC Philippines
- Registered Civil Engineer
 2011, PRC Philippines
- Registered Master Plumber
 2013, PRC Philippines
 - 2014, Autodesk Thailand
- Certified Professional Engineering
 Management, 2016, American Society
 for Engineering Mngmt, Alabama USA
- Certified Lean Six Sigma green Belt, 2018, IASSC, Arizona USA
- Tekla Certified Professional
 - 2018, Trimble Philippines
- ✓ ISO-19650 BIM Project and Asset Information Professional
 - 2023, British Standard Institute
- Project Management Professional
 - 2023, Project Management Institute

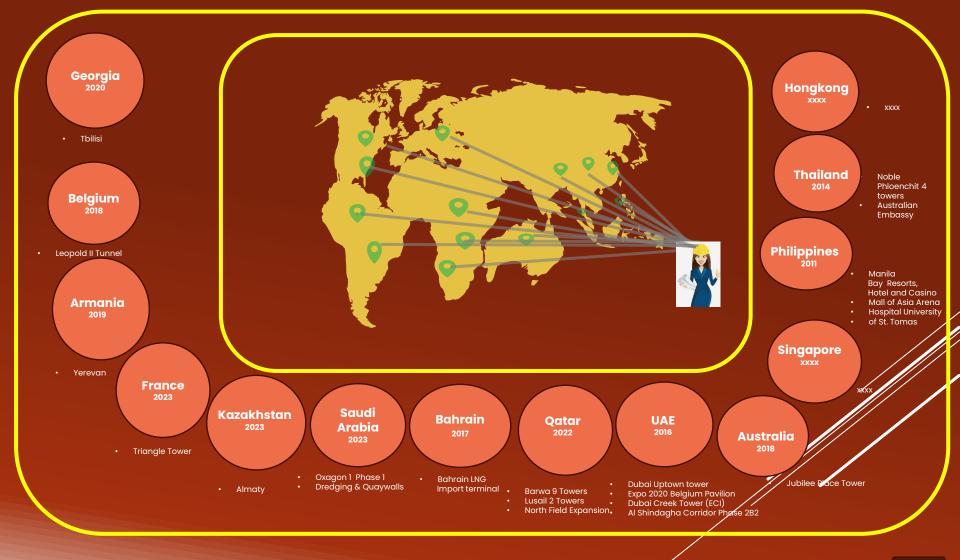
AFFILIATIONS

- ✓ LIFE Member, Philippine Institute of Civil Engineers (PICE), UAE Chapter
- ✓ Chairwoman, COWME, Philippine Institute of Civil Engineers (PICE), UAE Chapter, 2021
- Vice-Chairwoman, COWME, Philippine Institute of Civil Engineers (PICE), UAE Chapter, 2023
- Member, Project Management Institute (PMI), USA, 2021
- Member, American Society for Engineering Mngmt (ASEM), USA, 2016

My Professional Engineering BIM Journey Engr. Rachel Rosas Alcantara



My Visited Country and Involvement in the Project Engr. Rachel Rosas Alcantara



12 Years Engineering Experiences and counting....

7

Contribution to the Development of Engineering Practice(PC1)

Imake important contributions to my profession and the community within my field of Building Information Management and Virtual Design and Construction through my extensive and diverse engineering experience, which showcases my significant depth of advance engineer

Lead Significant Project (PC2)

I apply my project management skills and innovation expertise to bring new ideas and approaches to my project Lusail Tower in Qatar compose of 2 Towers 50 stories including podiums and basements totaling GFA of 660,000sq.m.

Advance Level Engineer

Demonstrated Engineering Leadership(PC3)

I have demonstrated excellence in both technical expertise and leadership skills, showcasing my diverse range of abilities as a practicing specialist in BIM within my filed of engineering.

Engineering Business (PE1A) / Organizational Outcome

My level of strategic engineering management being an engineer with extensive and diverse experience contributed to the profession, trainess and the community.

Code of Ethics

As an Advanced Level Engineer in the field of Building Information Management and Virtual Design and Construction, I adhere the fundamental principles of my profession, guided by a code of ethics consistent with the norms of conduct expected of an APEC Engineer.

As the BIM Manager for Lusail Towers' Design and Build. I was responsible for the development of building information management for every phases of the project (PC2), I contributed and demonstrated my advanced engineering expertise and skills (PC1), and I possessed an extensive and diverse level of technical and innovative leadership as a specialist within my engineering specialty in (PC3) project management and virtual design and construction.

(PC1) Contribution to the Development of Engineering Practice

I have involved in the growing emphasis in many countries, including my project in Qatar, in the adoption of Building Information Management (BIM) (PC1.1a). I'm also passionate to spread the knowledge in BIM for Besix organization which I conducted training in more than 15 BIM sessions (PC1.1e) and 3 trainings in Filipino organization in UAE (PC1.2a).



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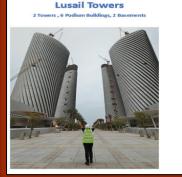
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I was involved in the development of BIM for Lusail Towers with two 50 stories, podiums and basement totaling GFA of 660,000 sq.m (PC2.3d). This involves my accumulation of data, reporting, and monitoring from a period of 42 months prior to the tender, design, construction, and commissioning stages of the Project (PC2.1a). I worked towards achieving the project goals in construction productivity (PC2.8a)

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Qatar Petroleum District Tower 9 Towers , 1 Hotel

Barwa Towers

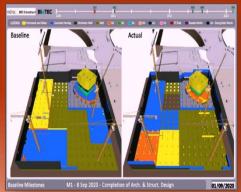
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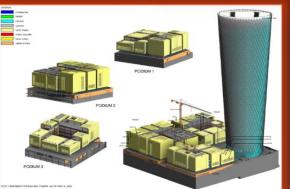
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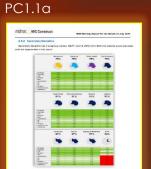


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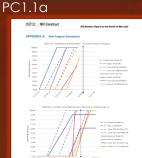


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I have applied the best practices and benefits that BIM can offer in terms of improving performance and enhancing the quality of construction for high rise buildings like my project in Lusail towers (PC3.1a). My expertise in leading BIM development has enhance the outcome of the project phases and effectively address challenges in the Architecture, Engineering and Construction sector (PC3.2c). Recently I'm being shortlisted for an award for a BIM Champion in individual Category representing my company Besix out of more than 200 entries. (PC3.2a).

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PC1.1a

BIM Project

Information

BIM Asset Information

PROFESSIONAL

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PC1.1a

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itecture, Engineering, ction & Project Management

Certificate of Recognition

ENGR. RACHEL LORIA ROSAS

BIM and Lean Int

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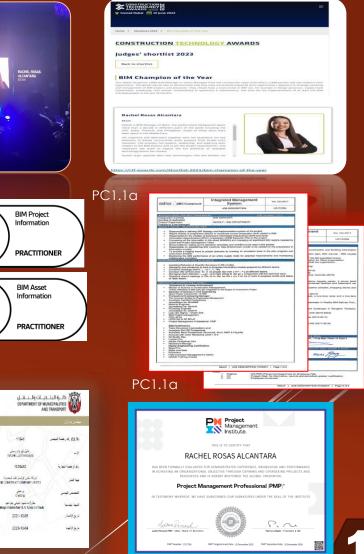
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-(PE1A) Engineering Business Outcor Research and Development

I am responsible for setting the concertate standard of Besix in the Middle East that all projects must adhere to (PE1A.1a). I also took the lead in spearle ending my project team and subcon to adapt to the new BIM360 operations that were necessary during the pendemic (PE1B.4g),

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PC1.1a

Roadmap To create the ideal BIM construction ecosystem for DED



kly Technical Topics for digital enthusiast (presence is optional, language = EN, session will always be recorded rdings can be found on this link : 🛄 <u>04. Technical Soapbox</u>

: Accurate BIM I LOI audit, progress & QTO illity Tools for Ravit on with Tekla (to be confirmed by Musiak Malgorzata

les when you are presenting a topic : Brief introduction : wha't the purpose of the tool, procedure etc. Keep it technics, but not too technical (Audiance = BIM Modeler, Steel, Façade, Methods, Plan Max. 30 minutes of presentation. It's minutes of quastions alterward. Ty to show some low demonstrations... It shows more than a PowerPoint.

have an interesting topic : @Huy, Hoang or @Vandenbogaerde, Kristo

2022 – Rachel L.Rosas (Dubai) – Laser Scanning @ Lusail Towe

6/2022 - LSA - Internating report (automatization of the reporting at 6/2022 - ADR - Task Automation & RIGA-project 6/2022 - HHU - Polder Structure on BIM360/ACC 5/2022 - LEE - BIM360 + PowerBI 5/2022 - UE - BIM360 + PowerBI 5/2022 - BED - Bim40 - Soapbox

egenese 10.02/2023: BIM Coordination with Aconex IMS by Hor 13/02/2023: KLIP to BIM Tool by Mathieu Ophoff (R4) 27/07/2023: Bissel Manager by Vejko Janijc 13/01/2023 – KBM – BIM @ Dubai Watte to Energy

11/2022 – Michaela Ambrosino (ULB) – Briki 11/2022 – Cancelled 11/2022 – Cancelled 11/2022 – No Soapbox – Fall break 11/2022 – No Soapbox – Fall Break 10/2022 – LE – Cenus & Power Bl 10/2022 – RCO – ISO19650 (ISh Bxl Time) 10/2022 – LL – Analytical modelling Io Be

022 – RCO – ISO1965U (15H 8X) (m) 022 – ALU – Analytical modelling in 1022 – KDS – BIM Server 2022 – KTS – BIM Server 2022 – TST (Qonic) – QONIC: Accu 2022 – PAA – Solibri use case: LOI a 2022 – PIH Interoperability TC

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MEDigitalConstructionAwards

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Code of Ethics

As a BIM Manager in the field of Building Information Management, I adhere the fundamental principles of my profession, guided by a code of ethics consistent with the norms of conduct expected of an APEC Engineer (PREAMBLE) which I have responsibilities to my states , community , employer, clients , employees, and colleagues (ART. II – VI)

Engr. Rachel Rosas Alcantara

BIM Engineer / Coordinator

BESIX, Six Construct Co Ltd,

Dubai UAE, 2016-2019

I carry out the leading and coordinating tasks for the Lusail Project while working remotely in DubaC3.2c). I prepared the BIM Execution Plan carried out in harmony through the project. In May 2020, I and the team obtained BEP's code A approval through my constant request of meeting to resolved information gap, regularly evaluation of BIM coordination and analyzing the contracts PC2.3e)

- I accomplished to get approval code A for the BIM model for Lusail Tower in Qatar with high efficiency of 93% ready for construction (PC2.3e).
- My designated team in BIM is meticulously modeled to LOD500 which can extract BIM Quantities from 3D model, operate as mediators in the cost process between different departments (PC2.3a).

BIM Manager BESIX, Six Construct Co Ltd, Dubai UAE, 2019-Present

As a result of my two years of implementing, monitoring, and controlling BIM in Lusail Tower, my role was elevated as **BIM Manager** in Civil Engineering, which is Qatar's most recent iconic project which is adjacent to the country's highest tower (PC3.2c).

In-house, I am in charge of supervising four BIM Lead engineers who have shown to be very effective and a great fit for the project PE1A.2b).

 the structural cycle is shorter, lasting between 4 days - 5 days instead of the original 6 days (PC2.8b).

the construction productivity exceeded the goal and was 2.02 hr./m3 (PC3.4b)











RAUTODISK

Thank You!!



Engr. Rachel Rosas Alcantara

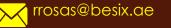
PMP, BSI-BIM ISO 19650, MsCM, RCE, RMP, ACP,CLS-GB, CPEM











+971 55 258 7146 (UAE)

"Iwant to become a BIM Champion and be an active and dynamic network of BIM enthusiasts dedicated to furthering engineering advancement and innovation. As a BIM Champion, I would have the opportunity to connect with the community and contribute to its continuous efforts to promote competitive and sustainable economic development."

Using BIM has changed the construction industry. It paves the way for us to try out innovative ideas in design, improve our processes, and complete more sustainable projects.



RACHEL ROSAS ALCANTARA

A. MY ROAD TO BIM MANAGER

My first intention was to work for the government, either in the military or as a public servant in some capacity as Civil engineer. My ability to further my profession and stay current with innovation advancements is one of my assets. As the years went by, I became more involved with iconic projects worldwide in private companies which maximize both my career and my network.

In my 12 years of experience as a registered Civil engineer, I have been entailed in 8 sets of iconic high-rise buildings, 5 sets of infrastructure and 2 sets of stadiums with a combined worth of \$3.15 billion, in growing prominence in the Philippines, Thailand, United Arab Emirates, France, Qatar and Saudi Arabia, all nation with highly required and ratified of Building Information Management (BIM). I strategically generate the comprehensive BIM requirements for both the appointing parties and local authorities, alongside the lean concept that aggrandize, meliorate, and advance the quality of tendering, design, and construction for projects to its exquisite and immense outcome raised and harnessed of my adroitness to formulate impact on the project.

B. EDUCATION

Master of Science in Construction Management Polytechnic University of the Philippines Dubai UAE-2019 Thesis: Application of BIM and Lean Integration in Construction Projects in UAE

Bachelor of Science in Civil Engineering

University of Rizal System Morong Philippines-2011 Thesis: Design of Domestic Sewerage Septic System; An Input to Biogas Utilization

C. KEY EXPERIENCE FOR BUILDINGS

BIM Manager / BIM Coordinator	April 2019-October 2022 / 42 months
50 Levels: Lusail Tower Plot A and Plot B	Qatar / Besix - JV MIC Construct / MIDMAC

I was specifically brought on board based on my qualification and expertise for Qatar's recent iconic Lusail Towers project which is adjacent to the country's highest tower composed of two sets of 50 stories Tower totaling GFA of 660,000 sq.m, with mandatory implementation of BIM in the contracts throughout the design and construction phase of the project.

- Despite the significant COVID 19 outbreak during the Design and Construction of Lusail, the BIM team under my supervision, persist in collaborating with the entire project team in innovative ways and successfully delivered a multitude of projects with real-time sharing of 100s of an abundance of project information, early identification of 10,000s of conflicts, and reduced reworks.
- While working on the Lusail project, my expertise as a BIM ISO Auditor is my asset. I'm best suited to carry out the starting BIM process for all newly awarded projects in the Middles east namely Lusail Tower and Uptown Tower both more than 50 stories, because I'm an expert in the process and given all of my qualification.
- As the head of the BIM Team within the Main Contractor, I supervised a team of 5 members, and 20 appointing parties of BIM subcontractors, while more than half of the production was working remotely.
- My crucial responsibility whilst operating in a remote capacity in UAE as BIM Manager entails monitoring, controlling, and liaising with Construction, Operation, QAQC managers, subcontractors, and team leads across diverse trades, encompassing structural, architectural, MEP, vertical transport, external landscape, and facade.



ACHIEVEMENTS

- I accomplished to get approval code A for the BIM Deliverables for Lusail Tower in Qatar with high efficiency of 93% ready for construction.
- I am responsible for setting the corporate standard of Besix in the Middle East that all projects must adhere to. I also took the lead in spearheading my project team and subcon to adapt to the new cloud base operations that were necessary during the pandemic.

HIGHLIGHTS

- Design and Build of numerous mega projects amounting to \$3.15 Billion combined worth.
- Obtained certifications for numerous training programs and met various Engineering Specialties
- Shortlisted to the TFT Watchlist: Top Engineers and Architects in the Middles East with over hundreds of entries.
- Shortlisted in the Middle East Construction Technology Award 2023 under category of "BIM Champion of the Year" with over 200+ original entries.
- Proactive Engineer in Society and who offers Trainings and advancement opportunities.

I'm an engineer and BIM enthusiast. I use my digital talents to create unique solutions that improve engineering projects' sustainability performance and suit project requirements.

BIM Coordinator / Civil Engineer	
77 Levels: Triangle Tower	

October 2022 to Present / 13 months France / BESIX

I am contributing to BIM coordination and integrating the project's information model. I conduct a BIM quality assurance and quality control audit on all task delivery work performed by all trades.

BIM Coordinator / Civil Engineer	June 2018 to Nov 2018 / 5 months
42 Levels: Dubai Uptown Tower	BESIX

I joined this project in its earliest construction phase. I drafted the initial BIM execution plan. I am responsible for establishing the project's, templates, and workflow, as well as ensuring that the subcontractor adheres to the BESIX corporate standard. I am reviewing the model through clash detection and conducting BIM coordination meetings with the entire team to address and resolve the issues.

BIM Expert / Civil Engineer	March 2017 to March 2018 / 12 months
1 KM Tower Height	UAE / BESIX / Samsung / AECOM
Early Contractor Involvement (ECI)	The Tower Dubai Creek Harbor, Future Tallest Tower in

Early Contractor Involvement (ECI) The Tower Dubai Creek Harbor, Future Tallest Tower in the world

I was selected to be a part of this historic and iconic project for the world's next highest skyscraper. I support the team on the project, which has complex and extensive BIM requirements. I collaborated with method teams and planners through the establishment of a thoroughly rendered four-dimensional (4D) simulation of the construction sequence. Regularly, I provide the commercial team with quantities taken from the 5D model that were derived from the BIM. This is another way that I help the team in developing the Bill of Quantities

Senior BIM Modeler / Civil Engineer	January 2015 to February 2016 / 13 months
Australian Embassy	Thailand / Bouygues-Thai / VSL Australia Limited

I am involved in the process of BIM coordination and the preparation of quantity reports. I am accountable for generating shop drawings that pertain to the structural and architectural aspects of a project. I visited the site to assess the current state of progress.

Senior BIM Modeler / Civil Engineer	February 2014 to January 2015 / 11 months
50 Levels: 4 Towers Noble Ploenchit	Thailand / Bouygues-Thai / VSL Australia Limited

As part of my role, I assist with BIM coordination. My responsibility involves producing shop drawings that relate to both the structural and architectural aspects of the project. This includes section and plan details, as well as surveying works.

Senior BIM Specialist / Civil Engineer	June 2013 to Janua	ary 2014 / 7 months
9 Levels: Private Hospital in University of St	o. Tomas	Duotal

I actively assist with the coordination of the BIM deliverables and the progress reports. I am responsible for producing contract requirements for the structural MEP and architectural drawings of a project, making sure they are finished on schedule, authorized by the consultant, and ready for construction. I went to the location to evaluate the present level of development on site.

Senior BIM Specialist / Civil Engineer	April 2013 to June 2013 / 2 months
Manila Bay Resort	Philippines / Duotal

I support BIM coordination as part of my line of work. Producing shop drawings for the project's structural trade is my duty. General arrangements and details ready for construction are included in this.

















Revit Specialist 45 Levels: 9 Barwa Towers Nov 2013 to April 2014 / 6 months

Qatar Bouygues - Sigma bear

I lead the effort of putting together a set of BIM models, construction document and performing coordination tasks with Sigma bear. I modeled 3D structural and architectural based on construction designs and SDA (Site Design Amendment).

D. KEY EXPERIENCE FOR MARINE AND INFRASTRUCTURE

BIM Manager / Civil Engineer	February 2023 to Present / 9 months
Oxagon Port Quaywalls & Dredging Phase 1	Saudi Arabia / BESIX-MBL / Boskalis Consortium

I joined this project in its earliest construction phase. I got the approval of BIM execution plan. I am responsible for establishing the project's, templates, and workflow, as well as ensuring that the subcontractor adheres to the Client Neom and BESIX corporate standard. I am reviewing the model through clash detection and conducting BIM coordination meetings with the entire team to address and resolve the issues.

 BIM Coordinator / Civil Engineer
 November 2018 - April 20192017 / 14 months / UAE / BESIX

 AI Shindagha Corridor consist 2 fly over bridges with 6 lanes in each direction for 1.2km , In addition 1 ramp and 2 tunnels,

As head office support, I joined this project at its early stages of construction. I am responsible for defining the project's BIM implementation system and BIM strategy. I oversee the production of information models during the construction phase of the project. I assess the subcontractor's progress and advise the Commercial team regarding the subcontractor's monthly progress report.

BIM Coordinator / Civil Engineer	March 2017 to march 2018 / 12 months / UAE / BESIX
Expo 2020 Pedestrian Bridges and Retaining walls	

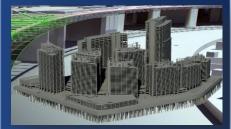
I am in charge of leading the team in the delivery of IFC drawings for Design Stage, and we recently utilized civil 3d for the modeling of retaining walls for the very first time in BESIX. This marks the beginning of the adaptation of civil 3d for usage in subsequent tender projects. In addition to discussing the information with the BIM team, my responsibilities include compiling and reviewing on the data that was provided by the Design engineers to be represented in the IFC drawings.

BIM Expert	January 2016 to March 2017 / 14 months
Bahrain LNG Import Terminal	UAE / BESIX

I am in charge of developing and producing IFC drawings for the design stage, and I utilized Revit tools for the BESIX marine project. This is the first marine project to use BIM, and it represents the start of BIM implementation for marine tender projects and awarded projects. My tasks involve acquiring and interpreting data supplied by Design Team to be appropriately incorporated in the IFC Design Stage.

BIM Coordinator	October 2013 to November 2013 / 2 months
	Hong Kong / Dragages / SigmaBear
MTR Station Connecting Shatin to Centra	I Link Project Hung Hom Station and Stabling
Siding (Tender Stage)	

I am the company representative of Sigma B ear in Hong Kong as BIM Coordinator. I lead the effort of putting together a set of BIM models, tender document and performing coordination tasks with Sigma bear. I gathered all sets of information in different disciplines. I review the issued tender drawings, identify any unclear portion and report to the engineer in charge in the project.













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E. KEY EXPERIENCE FOR STADIUM

Revit Expert	December 2011 to October 2013 / 22 months
Singapore Sports Hub	Singapore / Dragages / Sigmabear

I created shop drawings for rebar details for the first three months, followed by promotion to Revit Expert to model updates based on construction designs and SDA (Site Design Amendment).

Assistant Technical Manager	November 2010 to June 2011 / 8 months
Singapore Sports Hub	Philippines / BF Metal Corporation

I am in charge of collecting and submitting daily, weekly, and monthly reports on time, mainly giving support to the Technical Manager. Incoming material deliveries were scrutinized. A material receiving inspection report was prepared by the project in charge and arranged by me. I visited the location and verified and evaluated the designs. I asked for supplies, gear, and cars for transportation. I created and organized the ISO specifications.

F. FREELANCE WORK

BIM Instructor	
OFCEA - Overseas Filipino Civil Engineers Association	December 2018 and April 2019
RS Management Consulting and Training Services	June 2016

I prepared class lectures, assignments, and activities per Course Outline. Discussed basic up to advance course and plugins of Revit software, I provided a nurturing environment to support student success and retention. Administer student assessments and record results. I conducted one on one coaching or in house training and provided student support outside of class time hold office hours.

Consultant Material Engineer
Orientech CDC

March 2013 to April 2013

Inspect and analyze the improvement of the concrete work in the following barangays in Quezon City Philippines: Magsaysay Avenue, Betty Go Belmonte and Laging Handa.

G. LEVEL OF BIM COMPETENCIES

Level 10	Revit	Level 8	3D Studio Max	
Level 10	Naviswork	Level 8	Photoshop	
Level 10	ACC/ BIM360	Level 8	Infraworks	
Level 9	Revizto	Level 8	Civil 3D	
Level 9	Autocad	Level 7	Etabs	
Level 9	Tekla Structure	Level 7	Synchro 4D	
Level 9	Lumion	Level 6	Staad	
Level 8	Primavera	Level 5	Dynamo	
Level 8	Rushforth Tools	Level 5	Relatics	
Level 8	Tekla BIMSight	Level 5	BIM Vision	
Note: LEVEL	10 IS THE HIGHTEST			





H. AWARDS / CITATION RECEIVED

Date Received	Name Of Awards	Name/Address of Awarding Organization
March 01 2024	Awardee To the Filipino Times (TFT) Watchlist: Top Engineers and Architects in The Middles East with Over Hundreds of Entries	The Filipino Times: Middle East
April 24 2023	Shortlisted In the Middle East Construction Technology Award 2023 Under "BIM Champion Category with Over 200+ Original Entries	Construction Technology Award: Middle East 2023
March 25, 2023	Certificate of Recognition: Consistent Exemplary Performance and Supports as Committee on Ways and Means (COWME)	PICE-UAE: Board of Directors 2023
February 24 2023	Shortlisted To the Filipino Times (TFT) Watchlist: Top Engineers and Architects in The Middles East with Over Hundreds of Entries	The Filipino Times: Middle East
December 10, 2022	Certificate of Recognition for Consistent Exemplary Performance as Member of Committee on Membership. PICE UAE- Year End Assembly 2022	PICE-UAE: COME 2022
October 28, 2022	Certificate of Appreciation: Valued Support And Utmost Generosity to The Committee on Corporate Social Responsibility (CCRR) 2022 Construction of Pedro T. Orata National High School; Clinic	PICE-UAE: CCSR Year 2022
July 09, 2022	Certificate of Achievement in Recognition of Consistent Exemplary Performance as Member of Committee on Membership. Mid- Year Assembly 2022	PICE-UAE: COME 2022
June 21, 2019	Certificate of Appreciation as Technical Speaker: 2019 Mid- Year Assembly of The PICE UAE Chapter: Theme Competency Advancement Towards CE 4.0	PICE-UAE: BOD 2019
April19 & 26 2019	Certificate of Appreciation in Recognition of Outstanding Contribution for Delivering a Lecture: Autodesk Revit 2019 Training Course	Overseas Filipino Civil Engineer Association OFCEA-UAE: Board of Directors: 2019
February 02 2019	Certificate of Recognition of Participation and Valuable Presentation of Innovative Research: 2 nd International Conference in Architecture and Engineering, Construction and Project Management	PSPPM & PUP- Abu Dhabi UAE
December 7 & 14 2018	Certificate of Appreciation in Recognition of Outstanding Contribution for Delivering a Lecture: BIM Revit Architecture and Structure 2018 Training Course	Overseas Filipino Civil Engineer Association OFCEA-UAE: Board of Directors: 2018

I. PROFESSIONAL QUALIFICATIONS / REGISTRATION

Date of Registration	Registration Body	Address of Registration Body	Professional Discipline
December 15, 2023	Project Management Institute	Pennsylvania, United States	Project Management Professional
July 03, 2023	British Standards Institution (BSI)	London, United Kingdom	ISO: 19650 BIM Project Information Professional
July 03, 2023	British Standards Institution (BSI)	London, United Kingdom	ISO: 19650 BIM Asset Information Professional
June 15, 2023	British Standards Institution (BSI)	London, United Kingdom	ISO: 19650 BIM Project Information Practitioner
June 15, 2023	British Standards Institution (BSI)	London, United Kingdom	ISO: 19650 BIM Asset Information Practitioner
October 05, 2021	Department of Municipalities and Transport	Abu Dhabi, United Arab Emirates	Licensed Practicing Engineer
August 5, 2018	IASSC – Arizona, Unites States	Dubai, United Arab Emirates	Certified Lean Six Sigma – Green Belt
March 02, 2018	VTS CoTrimble, New York USA	Quezon City, Philippines	Certified Tekla Structure Advance Professional

February 23, 2018	VTS CoTrimble,	Quezon City,	Certified Tekla Structure Intermediate
February 23, 2010	New York USA	Philippines	Professional
November 29, 2016	American Society for	Dubai, United Arab	Certified Professional Engineering
November 29, 2010	Engineering Management	Emirates	Manager
December 28, 2014	Autodesk-Thailand	Bangkok, Thailand	Autodesk Certified Professional
August 29, 2013	Professional Regulation Commission- (PRC) Philippines	Paredes St., Manila Philippines	Licensed Master Plumber
October 22, 2012	Department of Public Works and Highways (DPWH)- Philippines	Edsa, Quezon City, Philippines	Accredited Material Engineer
December 05, 2011	Professional Regulation Commission- (PRC) Philippines	Paredes St., Manila Philippines	Licensed Civil Engineer
December 15, 2010	Civil Service Commission-	Diliman, Quezon	Certified
,,	(CSC) Philippines	City, Philippines	Civil Service Professional

J. FIELD(S) OF SPECIALIZATION

- a. Project Management And Construction Engineering (PMCE)
- b. BIM Management (BIM)
- c. <u>Technical Engineering</u>

K. AFFILIATION IN BUSINESS / PROFESSIONAL / CIVIC ORGANIZATION

Inclusive Date	Name/Address of Organization	Positions Held
2023-Present	Society of Engineer (SOE) UAE	Member
2022-Present	Project Management Institute (PMP)	Member
2022 To Present	Philippine Institute of	Life Member
	Civil Engineers- UAE Chapter	
2021 - 2005	Philippine Institute of	Member
	Civil Engineers- UAE Chapter	
2023	Philippine Institute of	Vice Chairman (COWME),
	Civil Engineers- UAE Chapter	Committee on Ways and Means
2022	Philippine Institute of	Committee Member (COME)
	Civil Engineers- UAE Chapter	Committee on Membership

L. PROFESSIONAL TRAININGS/SEMINARS ATTENDED

Program Description/Title	Name/Address of Provider	Role (e.g., Speaker)	Units Earned	Dates Attended
2019 Mid-Year Assembly of the PICE UAE Chapter: Theme Competency Advancement Towards CE 4.0	PICE UAE	Speaker	10	2019 June 21
Autodesk Revit 2019 Training Course	OFCEA-UAE	Speaker	10	2019 April19 & 26
2 nd International Conference in Architecture and	PSPPM & Pup-	Speaker	40	2019 February 02
Engineering, Construction and Project Management	Abu Dhabi UAE			
Bim Revit Architecture and Structure 2018 Training Course	OFCEA-UAE	Speaker	10	2018 December 7 & 14

Program Description/Title	Name/Address of Provider	Role (e.g., Speaker)	Units Earned	Dates Attended
Advance Level Engineering Mentorship: APEC Engineer Registries	PTC-MENA	Attendees	20	2023 Mar 01– 2023 Mar 29
Advance Level Engineering Write shop: ASEAN and APEC Engineer Registries	PTC-MENA	Attendees	8	2021 April 02
Bim ISO 19650 Part 6: Health and Safety Training Course	BSI- UK	Attendees	8	2023 May 19
Bim ISO 19650 Part 5: Security and Bim Training Course	BSI- UK	Attendees	8	2023 May 18
Bim ISO 19650 Part 4: Information Exchange Train. Course	BSI- UK	Attendees	8	2023 May 17
Bim ISO 19650 Part 3: Information Management in Operational Phase Training Course	BSI- UK	Attendees	8	2023 May 16
Bim ISO 19650 Part 2: Project Delivery Training Course	BSI- UK	Attendees	8	2023 May 15
Bim Fundamentals Training Course	BSI- UK	Attendees	16	2023 May 11-12

BESIX Development Academy 1.1 Communication, Design	BESIX-UAE	Attendees	32	2023 May 02-
Base, Estimating, Lean Awareness, Methods Train. Course Communication Skills Workshop	Solomon P.	Attendees	8	2023 May 05 2023 May 01
Certificate Of Attendance:	Solution UAE PICE-UAE &	Attendees	2	2023 March 25
1 st Technical Collaboration Of PICE- UAE Chapter and	ASEP RSC UAE	Allendees	2	2020 March 20
ASEP RSC UAE				
Theme: Strategic Process of Project from Concept to				
Construction		A		
4 th PICE International Chapters Collaboration Webinar:	PICE-UAE- Abu Dhabi	Attendees	2	2022 July 31
Resilient and Innovative Solution in The Civil Engineering Specialization – Day 2	Abu Dhabi			
4 th PICE International Chapters Collaboration Webinar:	PICE-UAE-	Attendees	2	2022 July 30
Resilient and Innovative Solution in The Civil Engineering	Abu Dhabi			
Specialization – Day 1				
2022 PICE Midyear National Convention and Technical	PICE NATIONAL	Attendees	15	2022 June 17 & 18
Conference		A	-	
9 th International Technical Conference & 3 rd Virtual Collaboration Webinar with PICE International Chapter	PICE-USA -Las Vegas, Nevada	Attendees	5	2022 April 29 & 30
Training Course Program:	EP&MDT-UAE	Attendees	24	2020 Nov 05 –
Microsoft Power Bl		Allendees	27	Nov 26
PICE 1 st Webinar Lecture Series: Seismic Design of RC Bear	PICE NATIONAL	Attendees	2	2020 May 09
of				,
Special Moment Frames According to NSCP 2015				
PICE 1 st Webinar Lecture Series: Rebooting Public Transport	PICE NATIONAL	Attendees	2	2020 May 08
for The				
New Normal – Imperatives for Information Exchange and Collaborative Governance				
PICE 1 st Webinar Lecture Series: Geosynthetic Applications t	PICE NATIONAL	Attendees	2	2020 May 06
Civil Engineering		711010003	2	2020 May 00
PICE 1 st Webinar Lecture Series: Is Sars-Cov-2 In My Water	PICE NATIONAL	Attendees	2	2020 May 05
Sewer. Summary of The Current Science				
PICE 1 st Webinar Lecture Series: Water Resources Challeng	PICE NATIONAL	Attendees	2	2020 May 04
Career Path Enhancement and Adm / Dubai Municipality	PICE-UAE-	Attendees	8	2020 February 21
Engineer Registration Seminar	Abu Dhabi	Attendese	10	2010 Ostabar
Training Course Program: Primavera Basic Training Course	OFCEA-UAE	Attendees	16	2019 October 11 & 18
BESIX Potential Academy	BESIX-UAE	Attendees	8	2019 Oct 15
High Rise Building Training				
Training Course Program:	OFCEA-UAE	Attendees	16	2019 August
Fidic Contracts Administration & Management Training				7 & 16
Training Course Program:	OFCEA-UAE	Attendees	16	2019 July 6 & 13
Autodesk Revit 2019 Façade Training Course Training Course Program:	OFCEA-UAE	Attendees	16	2019 March
Quality Assurance / Quality Control Training	OFCEA-UAE	Attendees	16	8 & 15
Training Course Program:	OFCEA-UAE	Attendees	16	2019 February
ETABS And Safe Training Course				15 & 22
RELATICS Training Configuration Basic	BESIX-UAE	Attendees	5	2018 July 10
Training Course Program:	GMC-UAE	Attendees	40	2018 May 04- July 27
Lean Six Sigma Green Belt Training		A	45	
Tekla Structures Advance Training Course	VTS-Philippines	Attendees	15	2018 February 29 – March 2
Tekla Structures Intermediate Training Course	VTS-Philippines	Attendees	20	2018 February19-23
Training Course Program:	RSMETS-UAE	Attendees	40	2017 Sept 15 -
LEED AP Exam Preparatory Course		7		2017 Sept 13 -
Training Course Program:	RSMETS-UAE	Attendees	40	2017 Mar 03 –
Lean Six Sigma Green Belt Training				2017 April 21
Training Course Program:	RSMETS-UAE	Attendees	40	2017 Jan 27 –
Project Management Professional		A.(40	2017 March 10
Training Course Program:	RSMETS-UAE	Attendees	40	2016 Aug 12 – 2016 Sept 30
Professional Engineering				2016 Sept 30
Management Training	Autodest	A 44 a	40	2016 July 20
Training Course Program:	Autodesk,	Attendees	40	2016 July 29 – August 24
Autodesk Civil 3d 2016	CADD Centre			Augusi 24
Training Course Dreament	Philippines	Attendess	40	2016 May 06 -
Training Course Program: Building Information Management	RSMETS-UAE	Attendees	40	2016 May 06 – 2016 June 24

Training Course Program: LEED Green Associate Exam Preparatory Course	RSMETS-UAE	Attendees	40	2016 April 15 – 2016 June 03
Training Course Program: 3d Studio Max 2010	Autodesk, Microcadd- Philippines	Attendees	45	2010 April 05 - May 08
Training Course Program: Autodesk Revit 2009	Autodesk, Microcadd- Philippines	Attendees	45	2009 April 25- July 11
Training Course Program: Staad Pro 2004	Autodesk, Microcadd- Philippines	Attendees	30	2008 August 10- Sept 14
Training Course Program: AutoCAD 2008 with Color Rendering Level I And Leve	AUTODESK, Microcadd- Philippines	Attendees	70	2008 April 10- May 29

M. PERSONAL CIRCUMSTANCES

Date of Birth Gender Age Birthplace Civil Status Height / Weight Citizenship/ Nationality	May 21, 1988 Female 35 yrs. Old Angono Rizal - Philippines Married (3years) 5 ft. & 4" / 62 kgs Filipino
	5

N. REFERENCES

Engr. Benoit Meulewaeter	Arch. Marianne Celeste Zantua
(BESIX- ME) Head of Engineering Department	Bouygues UK
Design Director	Structural Design Manager / BIM Manager
bmeulewaeter@besix.ae / +971 56 188 7745	marianne.celeste@@bouygues-uk.com
	/+447423270126
Engr. Kassem Benabid	Eng'r Roque Senga
(BESIX-ME) Head of Virtual Design and Construction -	IntPE (UK), PEM, MCIOB, CCM
Present	
Project Manager	Industrial EPC Project Specialist in Abu Dhabi
kbenabid@besix.ae / +971 56 687 3317	roquesenga@gmail.com /
Eng'r. Rania Shawky	
(BESIX- ME) Head of Virtual Design and Construction 2019	
Project Manager	
rshawky@besix.ae / +971 50 557 9756	

I hereby certify that the above stated information is true and correct to the best of my knowledge, belief, and ability. Any misinterpretation or false information stated herein will be grounds for immediate cancellation of my application or my employment.

RACHEL ROSAS ALCANTARA



PATH TO BIM CHAMPION ENGINEERING & BIM REPORT

Name of Candidate: RACHEL ROSAS ALCA Professional Discipline: CIVIL ENGINEERING

RACHEL ROSAS ALCANTARA Date of Application: FEB 06, 2024 CIVIL ENGINEERING

BIM

PC1.1a

PC2.7a

PC1.1d

PC2.1c

Career Episode Title:	Competency
Implementation of BIM in the Design and Build of Lusail Towers in Qatar.	Elements
Dates of Career Episode: 2019 2023 (42 Months)	Claimed

CE 1.1 Introduction (688)

In my 12 years of experience as a registered Civil engineer, I have been entailed in 8 sets of iconic high-rise buildings with a combined worth of \$3.15 billion, in growing prominence in the Philippines, Thailand, United Arab Emirates, France, and Qatar, all nation with highly-required and ratified of Building Information Management (BIM) (*PC1.1a*). I strategically generate the comprehensive BIM requirements for both the appointing parties and local authorities,



alongside the lean concept that aggrandize, meliorate, and advance the quality of construction for high buildings to its exquisite and immense outcome raised and harnessed of my adroitness to formulate impact on the project. (*PC2.7a*). Despite the significant COVID 19 outbreak during the Construction of Lusail, the BIM team under my supervision, persist in collaborating with the entire project team in innovatives ways and successfully delivered a multitude of projects with real-time sharing of 100s of an abundance of project information, early identification of 10,000s of conflicts, and reduced reworks (*PC1.1d*).

I was specifically brought on board based on my qualification and expertise for Qatar's recent iconic Lusail Towers project which is adjacent to the country's highest tower composed of two sets of 50 stories Tower totaling GFA of 660,000 sq.m, with mandatory implementation of BIM in the



contracts throughout the design and construction phase of the project. (*PC2.1c*). In my previous involvement in the nine-tower complex of Barwa Towers in Qatar in 2011, which is considered one of the highest and most mixed-use towers in Qatar, with approximately four other buildings with more than 50 stories in Asia demonstrate that my area of expertise is high-rise structuresm, however the efficacy of the lusail project cannot be guaranteed as each project is unique, (*PC3.1a*). In line with the field of my work, as a growing and fast innovation, I definitely can build high-class buildings and towers that suit and reach worldwide appeal and transcend national boundaries (*PC3.1a*). I am considering the most

NAME: RACHEL ROSAS ALCANTARA SIGNATURE:



trusted one in line with extending deeper and more intensive ways to build more towers that surely align with BIM requirements and benefit all (*PC3.1a*). In addition, I conduct technical reviews to verify the comprehensiveness, lucidity, and precision of the design and construction of the structural elements and synchronization of towers architecture, which this BIM process enhances to make a more substantial contribution to the advancement of project progress (*PC3.1b*)

As the head of the BIM Team within the Main Contractor, I supervised a team of 5 members, and 20 appointing parties of BIM subcontractors, while more than half of the production was working remotely (*PC3.5c*). My crucial responsibility whilst operating in a remote capacity in UAE as BIM Manager entails monitoring, controlling, and liaising with Construction, Operation, QAQC managers, subcontractors, and team leads across diverse trades, encompassing structural, architectural, MEP, vertical transport, external landscape, and facade. (*PC3.5c*) I am known for my leniency and compassion to uncover new

ways of solving engineering problems and construction methodology through adaptation of BIM (*PC3.2a*), in advancing my engineering journey to its finest and intensified projects and in the field that totally entangled my prowess and aptitude to escalate with modernized, artistic, and asymmetrical shapes of projects (*PC3.2c*)

After completing my mastered research titled

" Application of BIM and Lean Integration in Construction Project" and staying updated with BIM advancement and continiuously researching the effectiveness of BIM application, I have implemented the best and the verified preeminent of the ideas initiated in terms of enhancing the design and construction methodology addressing the role of BIM in the parameters of Engineering borough like my project in Lusail Towers (*PC3.1a*). In the most prominent achievements I have been recognized, in the recently held Construction Festival Award (*PC3.5b*). My diligent endeavors in the realm of Building Information Management have culminated in a commendable achievement, being shortlisted from more than 200 finalists in the prestigious event in the Middle East that took place on June 1st at the esteemed Conrad Hotel Dubai, UAE (*PC3.5a*).I administered the advancement and preference of the success of the Lusail project on behalf of Besix through giving quantifiable outcomes in the implementation of BIM ISO-19650, approach strategy in design processes, planning, supply chain coordination, cost control, scheduling, and the administration of BIM (*PC3.5e*)



PC3.1a

PC3.1b

PC3.5c

PC3.2a

PC3.5c

PC3.2c

PC3.1a

PC3.5b

PC3.5a

PC3.1e



CE 1.2 Background (384)

Based on my assessment, I am able to have estimated and well-defined the gravity of this project appointed to me that the Lusail region has been designated as the chosen location for the FIFA World Cup 2022 to accommodate approximately 20% of Qatar's growing population, this indicates an expedited execution of (2.0) sets of 50 stories tower for both the design and construction phases with demanding timeframe within 3 years,. (*PC2.1b*) Upon my further review, it became evident that the Lusail Towers Project is located in the "new " develop Lusail city features ultra-high-performance facade and complexity appearance , which has a correspondingly strong significant need for BIM requirements from the client applies to Lead Appointed Party as Main contractor and Appointing Parties Subcontractor. (*PC2.7b*)

In my expertise as practicing engineer, I possess expertise across various fields, including planning and cost. I was in charge with the responsibility of regulating the demanding BIM management for the Lusail Project as per to BIM Execution Plan correspond to ISO-19650 part 2, started from pretender all the way through design, build, and initial commissioning (*PC2.1c*). During a 42-month time frame, I systematically gathered and processed data to different sources to generate comprehensive BIM deliverables, reports, and progress tracking makes it predominantly reliable (*PC2.1a*). I signify the

BIM production to oblige appointing party subcontractors to enforce BIM process in industrializing task deliverables, in addition to that covid 19 pandemic greatly impact the normal routine of delivering task (*PC3.4a*). I observed extremely difficult to some specilize trades like architectural finishes keeping up with BIM requirements, I provide supplementary assistance and direction for the specialized subcontract to adopt BIM inovation in BIM360 and develop its own BIM process which still meet the project requirements (*PC3.1d*).

I was provided with data, structural cycle had been successfully reduced to 4-5 days, down from the initial 6-day cycle. With my coordination and strategic efforts and proactive approach to resolving construction issues prior to commencing work, the construction productivity goal and the target were surpassed, and the project achieved a productivity rate of 2.02 hours per cubic meter (**PC2.8b**). I am responsible for monitoring the BIM deliverables until PC3.1d

PC3.2d
PC2.8b
PC2.6b

FINANCE TIMELINE

the handover stage that ensure optimal design and construction of the project through implementation of BIM execution Plan and lean integration, which promote stability and progression in the task delivery process. (PC2.6b).

PC2.1b

PC2.7b

PC2.1c

PC2.1a

PC3.4a



CE 1.3 Identifying the Cause of the Problem (331)

Built environments for mixed-use occupancies by the human populace engulfed my engineering imagination

in many ways such that concepts at corresponding shapes and dimensions cannot be undermined when location features contemporary yet expression



of scenic art dominates, of which, Lusail City's urbanization program was situated in North of the city centered Doha Qatar(*PC2.1b*). It can be noted that my engagement with this type of projects predominantly was characterized by multifaceted encounters with interlinked stakeholders whose requirements abound incessantly coupled with tyrannies of urgency (*PC2.8a*). Although I may have done salient inputs at baseline schedules, milestones' targets are rarely established with consistent completions and executions (*PC2.6a*). Incidentally, having this two-50 stories building totaling GFA of 660,000 sq.m., which was envisioned to attract investors in the center of the newly developed Lusail city of Doha, still gotten me to a highly grueling inception stage and aggressive engineering disciplines' clashes (*PC2.6c*).

Despite of my separately done (4.0 sets) 50-Storey Towers among Asian Countries prior to Middle PC 3.1a East assignments, these Lusail's towering structures of modifications as it emphasizes Architecturaldistinctiveness, reinvented my engineering knowledge with versatility which necessitated an effective consonance to quick design development continuums (PC3.1a). Furthermore, my overriding assimilation to prevailing practitioners' adeptness in both analytical framework and engineering tools requires PC3.2a efficient validation and control, otherwise, the same will usually provide little adaptability of tasks in PC2.8d subsequent rollouts (PC3.2a). True enough, while I did accomplish the Nine (9) Tower Complex in 2011 at Barwa (15km away from New Lusail City), such achievement I gained, cannot guarantee or presupposes the same effectiveness of engineering approaches simply (PC2.8d). By inference and through my iterations of structural models, each building of considerable heights or towering dimensions PC2.3c predominantly undertakes multiple yet peculiar parameters which sometimes are beyond governing standards or specifications duly upheld by regulating agencies (PC2.3c).

Concerning Lusail Tower Superstructure's comprehensive, in-depth mathematically and physically modeled configuration, my preparation and identification of interweaving radical inputs so as to make an engineering tool (inclusive of BIM technology) consistent towards assumed structural-member-behavior and serviceability performance, may sometimes have gotten lopsided and verified outcomes openly unacceptable (*PC2.7d*) In the adaptedness to generate, secure, and accord to the structural project that comprises stability to encompass strategic plans in weighing the possible risks upholding and building of this project should have an in-depth analysis of the data, concise analytic designs instability and progression of the set buildings and to ensure the safety and I manage construction simulation plan and to physically review the possible causes and stimulate prior to my commitments (*PC 2.4c*).

PC2.7d

PC 2.4c

PC2.1b



CE 1.4 Analysis of Possible Solutions (638)

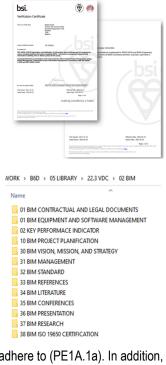
In the advancement of technology and in-depth structural area analysis it provides complete support and guidance that are up for Lusail project during a tender in 2019, I began managing 4D



simulations even during the early stages of the tender, which led to the success of winning the iconic project of Lusail Towers (PE1A.3a). I also assisted the Lusail team during the design and construction to adopt numerous innovative approaches to building information management (PC3.1e).

While working on the Lusail project, my expertise as a BIM ISO Auditor is my asset. I'm best suited to carry out the starting BIM process for all newly awarded projects in the Middles east namely Lusail Tower and Uptown Tower both more than 50 stories, because I'm an expert in the process and given all of my qualification

(PC3.2b). Recently I'm being shortlisted for an award for a BIM Champion in individual Category representing my company Besix out of more than 200 entries. (PC3.2a).



Before assigning to Qatar project, I worked at the Besix headquarters in Dubai from 2016 until 2019, where I coordinated efforts with colleagues in Brussels Head office to push forward ISOcompliant standards. In addition, with the help of management in introducing efficient methodologies learned at Head office PE1A.1b (PE1A.1b), I have assessed and tested the numerous innovations on the market, such as Revizto, BIM360, and Tekla, which are currently PE1A.1e extensively used on 5 different projects in Besix (PE1A.1e). I'm PC1.1c honored to have contributed to the BIM Standardization team (PC1.1c). I and my BIM team in Besix have a firm connection with innovative technologies like Revizto and BIM360. In April 2023, the team in Besix Head Office had face-to-face meetings with Besix PE1A.3d Team to collect our feedback and discuss our wishes for future platform development. I can assure the client that BIM PE1A.1f standardization (PE1A.3d) n in Lusail is in line internationally and accordance to rigorous BIM ISO 19650-2-2018 (PE1A.1f). During my iourney to ISO standardization. I lead my team in Dubai to collect and furnished data from prior experience and transformed it into a PE1A.3c template for reference to starting up new projects (PE1A.3c). As part of my standardization mindset, I am responsible for setting

the corporate standard in the Middle East that all projects must adhere to (PE1A.1a). In addition, I'm teaching the fundamentals of BIM, the project I lead has benefited greatly from the extensive use of BIM throughout the design and build process, resulting in improved project management and streamlined asset delivery across all phases of the project PC3.2c).

PE1A.3a

(PC3.1e)

PC3.2b

PC3.2a



I carry out the leading and coordinating tasks for the Lusail Project while working remotely in Dubai PC3.2c). I prepared the BIM Execution Plan carried out in harmony through the project. In May 2020, I and the team obtained BEP's code A approval through my constant request of meeting to resolved information gap, regularly evaluation of BIM coordination and analyzing the contracts PC2.3e).	PC3.2c PC2.3e
My involvement in the Lusail Project extended to overseeing the entire project lifecycle, from design to construction to handover, as well as implementing BIM practices for its successful completion (PC2.1c).	PC2.1c
This involved my collaboration with the Technical team, and As I assessed project requirements, I developed a comprehensive BIM strategy that integrated BIM throughout the project lifecycle	PC2.1c
(PC2.1c). This involved my close coordination to generation of drawings and my close monitoring and resolving issues with the development of 3D combined models together with different teams (PC2.3c),	PC2.3c
I'm also producing 4D sequence for progress reporting (PC2.6b). Additionally, I played a vital role as a mediator in cost decision analysis for the project, leveraging my expertise in 5D estimation and to	PC2.6b
analyze various cost scenarios and provide valuable insights to my project team on site((PC3.1d). Furthermore, I assisted in the initial review and preparation of Laser Scanning and Cobie for Asset	PC3.1d
Management perform by subcon, to utilize the power of BIM, streamline operations and ensure project success PC3.1b.	PC3.1b
CE 1.5 Project Planning and Implementation (426)	
I employed a range of strategies and lean approaches (PC3.1c). One of my strategies is integrating Microsoft Power BI in presenting to the client and project team the BIM progress which includes data	PC3.1c
insights and doble the speed of preparation of BIM reports (PC2.6f), and I setup the BIM360 Document Management as well, which reduces team time spent in sharing documents by 2 days per week and 500	PC2.6f
GB of files (PC2.8d). BIM360 Design Collaboration also improves the BIM production of her team even	PC2.8d.
working from home (PC2.8c).	PC2.8c
coordination process, wherein a team of technical team members from contractors, consultants, and subcontractors attended weekly meetings every Monday to talk about potential issues that might have a big impact on the Lusail project and resolve existing issues (PE1A.2a). I setup the Revizto platform to enhance the BIM coordination in the Lusail Project; this makes my	PE1A.2a
development process more effective than the conventional Navisworks technique and has a significant contribution to the development of accepted BIM models. I record the issues as well, monitor them, and	PE1A.2c
control them in Revizto, which is easier and gives support in the preparation of the official request for information to the client and consultant (PE1A.2c). I observed in the progress report that issues is now	PE1A.3a
3x faster to resolve and decision-making is 93% more efficient, whereas BIM models, 3D scans, and 2D drawings can be effortlessly superimposed in Revizto (PE1A.3a) . Aside from that, My BIM team	PC3.4a
receiving 3d scanning from surveyor assess and perform cross-checking for as built drawings for red marking the changes (PC3.4a). On the other hand, under my supervision, QR coding to 2d drawings	PC3.1a
was also integrated in the project to always access the most recent drawings and reduce ambiguities (PC3.1a). Last but not least, I incorporate the clients' inputs and requirements in identifying the data asset in cobie integration of as built in collaboration with Facility Management Team (PE1A.3b).	PE1A.3b
	PC1.1e





I conducted training in more than 15 BIM sessions in Lusail project (PC1.1e). Even though her BIM team in Lusail are globally dispersed across the 7 countries, I implemented a full cloud-based solution that globally connected the 430 staff members. One of the positive outcomes I learned and witnessed during the covid pandemic was the synchronization of her team using the features in BIM360 Design Collaboration, which was used extensively on the Lusail project, helped her team improve their BIM output even though they were working from home, which has the same sensation as

working in an office (PC3.4b).

CE1.6 Summary (211)



I established the BIM standards together with Lean Integration and monitoring system, and This allows the team under my lead to visualize the project accurately and better decision-making in PC2.7a construction (PC2.7a). Among the other numerous positive outcomes during my leadership in BIM process were the enhancements in PC2.1a guality, time savings, greater construction efficiency, and a highly effective site methodology (PC2.1a). I received the report that the structural cycle is shorter, lasting between 4 days - 5 days instead of PC2.8b the original 6 days (PC2.8b). Therefore, my coordination through BIM model with other discipline before the actual activities led the PC3.4b construction productivity exceeded the goal and was 2.02 hr./m3 (PC3.4b). I collected the data of the performance analysis from PC2.8b control team that also reveal that the site's methodology saved with a 50% efficiency and 50% methodology (PC2.8b). My designated team PC2.3a in BIM is meticulously modeled to LOD500 which can extract BIM Quantities from 3D model, operate as mediators in the cost process between different departments (PC2.3a). I have contributed using PC2.1b BIM to the management and approval authority of the Lusail Towers (PC2.1b). I genuinely believed in the Integration of BIM-Lean strategy. As I chose this for my topic in master's studies. This deepens my PC3.2a awareness of BIM Effectiveness and confidently to succeed together with the correct skills, knowledge, and commitment to the procedure

(PC3.2a).







SELF ASSESSMENT

UNIT PC1	CONTRIBUTES TO THE DEVELOPMENT OF ENGINEERING PRACTICE	Self-Assessment	
ELEMENTS: (A	ALL THESE ELEMENTS MUST BE ADDRESSED)		
PC1.1	1.1 Provides significant contributions to science and practice of engineering		
PC1.2	Leads engineering practice in area of specialization	TYES	□ NO
UNIT PC2	LEADS/MANAGES SIGNIFICANT PROJECTS	Solf Accor	emont
	ALL THESE ELEMENTS MUST BE ADDRESSED)	Self-Assessment	
PC2.1	Interpret project scope	□ YES	
PC2.2	Manage project quality, safety and risk	TYES	□ NO
PC2.3	Implement planning and design process	□ YES	
PC2.4	Review the design outcomes in operation	□ YES	
PC2.5	Prepares and maintain documentation during the design process	□ YES	
PC2.6	Manages time and progress	□ YES	
PC2.7	Review the design to achieve acceptance	□ YES	
PC2.8	Manages work priorities and resources	□ YES	
PC2.9	Manages the assets within the operation/system	T YES	□ NO
UNIT PC3	DEMONSTRATES ENGINEERING LEADERSHIP	Self–Assessment	
ELEMENTS: (A	ALL THESE ELEMENTS <u>MUST</u> BE ADDRESSED)	_	_
PC3.1	Facilitates innovation	T YES	□ NO
PC3.2	Promotes the engineering profession	□ YES	
PC3.3	Provides significant engineering contributions to community	□ YES	
PC3.4	Encourages and manages workplace change	□ YES	



PC3.5	Motivates and mentors other	🗖 YE	S	□ NO	
				1	

UNIT PE1A	PE1A MANAGES ENGINEERING BUSINESS/ORGANIZATIONAL OUTCOME Self-Assessment		nent
AT LEAST TWO	ELEMENTS MUST BE ADDRESSED FROM THE FOLLOWING:		
PE1A.1	Establishes engineering business/organization direction	T YES	□ NO
PE1A.2	Manages a multi-disciplined team	T YES	
PE1A.3	Leads and manages the engineering business/organization	TYES	□ NO

UNIT PE1B	RESEARCH AND DEVELOPMENT	Self-Assessr	nent
AT LEAST FOUR	ELEMENTS MUST BE ADDRESSED FROM THE FOLLOWING:		
PE1B.1	Identifies opportunities for new or improved processes and / or products/materials	TES YES	□ NO
PE1B.2	Identifies the resources required for R & D	I YES	□ NO
PE1B.3	Initiates concept developments	T YES	□ NO
PE1B.4	Gains commitments to the R&D proposal	T YES	□ NO
PE1B.5	Ensures research is undertaken		□ NO
PE1B.6	Collaborates in the application or potential commercialization of research outcome	PYES	□ NO



Application for BIM Champion Award



RACHEL ROSAS ALCANTARA

BIM Manager BESIX – Middle East



Six Construct Building, 11A St. Al Quoz Industrial 3 Dubai, United Aram Emirates Mobile: +971(55) 258 7146 Office Email: <u>rrosa@besix.ae</u> Home Email: <u>rachel.rosas21@gmail.com</u>



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BIOGRAPHICAL STATEMENT

RACHEL ROSAS ALCANTARA

Civil Engineer , BIM Manager Contact Details: AI Khail Gate, AI Quoz , Dubai, UAE Email Address: <u>rachel.rosas21@gmail.com</u> Contact No: . +971 55 258 7146



PROFESSIONAL BACKGROUND:

Rachel Rosas is BIM Manager at Besix. Her professional background spans more than a decade in different part of the world including the UAE, Qatar, Thailand and Philippines, with 7 of those years spent in the Middle East. Her diverse set of abilities in BIM. Digitalization and Project management that unites the team together as they complete mega projects throughout in Middle East from tender till handling over to the client/owners. She provides full support, leadership and expertise with respect to the BIM process and as per the project requirements. She motivates her team to exploit the full potential of available technology within the market and utilize it in Iconic, challenging projects. Rachel stavs current with new technologies that will benefit the organization and the following project. She continues to explore innovative techniques to

get better and because business is constantly changing. Rachel has obtained a number of certifications in order to excel in her chosen field of BIM. She is Certified Lean Six Sigma Green Belt, Autodesk Processional and holds Tekla Advance and Intermediate Certification. Rachel is a Professional Engineering manager of the American Society for Engineering Management. In her professional organization PICE, she is a regular resource speaker on BIM topics and offers numerous bim training sessions within Besix organization, internally trainings are provided to keep the team updated with the latest software and tools related to BIM. She concentrated on what she loves to do and she is working on what she needs to do to become a champion.

She had collaborated with architects, engineers, contractors and specialized partners on BIM projects in her work on high rise buildings, stadiums, embassies, hospitals, metro train stations, roads, bridges, and LNG terminals.

Rachel is currently working in Dubai as BIM Manger at Six Construct Co LTD. under BESIX Group, an engineering and contracting company operating in the construction of buildings, infrastructure, environmental projects, and roads. Before her work to Besix, Rachel served as Senior BIM Specialist at Bouyges-Thai, BIM Senior Lead Officer at Duotal, BIM Coordinator at Dragages Hongkong under Sigmabear, Consultant Material Engineer at Orientech CDC, Technical Assistant at BF Metal Corp, and Revit Instructor at RS Management Consulting and Training Services and at Overseas Filipino Civil Engineering Association.

Rachel received her Master Degree in Construction Management at PUP-Open University in Dubai United Arab Emirates (2019), Bachelor's Degree in Civil Engineering at the University of Rizal System in Morong, Rizal and passed the Philippine State Licensure Examination for Civil Engineer (2011) and Master Plumber (2013). In addition, she also passed the Philippine Accreditation of Department of Public Works and Highways for Material Engineer I (2012) and Republic of the Philippine Civil Service Commission for Professional Level (2010).

SKILL AND EXPERTISE:

BIM, Project Management. Lean Six Sigma and Leed , Proficient in Autodesk (Revit Structure, Architecture and MEPF, Autocad Civil 3D, Infraworks, and 3D max) and Tremble with Tekla structure , well versed in Microsoft Office Application (Word , Excel, Power point, One note and Visio . Artistic with various rendering tools using Lumion and Photoshop. Leading the coordination with Naviswork, Revizto, BIM 360 , BIMcollab, Tekla BIMsight, Knowlegable in Building Analysis and Design Software (Etabs, Safe and Staad Pro)., Scheduling and Cost Analysis using Primavera and Synchro 4D and BlueBIM , and other system engineering tools with Relatics , Power BI and Dynamo.



CREDENTIALS AND CERTIFICATES

1. AFFILIATION IN BUSINESS/PROFESSIONAL/CIVIC ORGANIZATIONS

Inclusive Date	Name/Address of Organization	Positions Held
AUGUST 2022	PROJECT MANAGEMENT INSTITUTE	Member
2011 - PRESENT	PHILPPINES INSTITURE OF	Vice Chairman COWME,
	CIVIL ENGINEERS- UAE CHAPTER	
AUGUST 2018	INTERNATIONAL ASSOCIATION OF SIX	Member
	SIGMA CERTIFICATION	
NOVEMBER 2016	AMERICAN SOCIETY FOR ENGINEERING	Member
	MANAGEMENT	

(Submit Supporting Documents)

2. EDUCATIONAL/PROFESSIONAL QUALIFICATIONS (Use additional sheets if necessary)

Academic Level	Degree/Title Conferred	University/College/Address	Dates Attended:
Undergraduate	Bachelor of Science in Civil Engineering	University of Rizal Sytem - Morong Rizal Philippines	2005-2011
Graduate - BS	Lingineering	Theat I mappined	
Graduate – Masteral	Master of Science in Construction Management	Polytechnic University of the Philippines – Sta. Mesa Manila	2016-2018
Graduate - Doctoral			

Professional Qualifica	ations/Registration		
Date of Registration	Registration Body	Address of Registration Body	Professional Discipline
DECEMBER 05, 2011	PRC- PHILIPPINES	PAREDES ST., MANILA PHILIPPINES	CIVIL ENGINEER
AUGUST 29, 2013	PRC- PHILIPPINES	PAREDES ST., MANILA PHILIPPINES	MASTER PLUMBER
OCTOBER 22, 2012	DPWH-PHILIPPINES	EDSA, QUEZON CITY, PHILIPPINES	MATERIAL ENGINEER
DECEMBER 15, 2010	CSC-PHILIPPINES	DILIMAN, QUEZON CITY, PHILIPPINES	CIVIL SERVICE PROFESSIONAL
OCTOBER 05, 2021	AUDM- UNITED ARAB EMITAES	ABU DHABI UNITED ARAB EMIRATES	CIVIL ENGINEER
DECEMBER 28, 2014	AUTODESK-THAILAND	BANGKOK, THAILAND	AUTODESK CERTIFIED PROFESSIONAL
MARCH 02, 2018	VTS COTRIMBLE , NEW YORK USA	QUEZON CITY, PHILIPPINES	TEKLA STRUCTURE ADVANCE CERTIFICATION
FEBRUARY 23, 2018	VTS COTRIMBLE , NEW YORK USA	QUEZON CITY, PHILIPPINES	TEKLA STRUCTURE INTERMEDIATE CERTIFICATION
NOVEMBER 29, 2016	AMERICAN SOCIETY FOR ENGINEERING MANAGEMENT	DUBAI, UNITED ARAB EMIRTAES	PROFESSIONAL ENGINEERING MANAGER

(SUPPORTING DOCUMENTS)

AUGUST 5, 2018	IASSC – ARIZONA ,UNITES STATES	DUBAI, UNITED ARAB EMIRATES	LEAN SIX SIGMA – GREEN BELT
AUGUST 20, 2022	PROJECT MANAGEMENT INSTITUTE	PENNSYLVANIA, UNITED STATES	CERTIFIED MEMBER
JUNE 15, 2023	BRITISH STANDARDS INSTITUTION (BSI)	London, United Kingdom	ISO: 19650 BIM Asset Information Practitioner
JUNE 15, 2023	BRITISH STANDARDS INSTITUTION (BSI)	London, United Kingdom	ISO: 19650 BIM Project Information Practitioner
JULY 03, 2023	BRITISH STANDARDS INSTITUTION (BSI)	London, United Kingdom	ISO: 19650 BIM Asset Information Professional
JULY 03, 2023	BRITISH STANDARDS INSTITUTION (BSI)	London, United Kingdom	ISO: 19650 BIM Project Information Professional
DECEMBER 15, 2023	PROJECT MANAGEMENT INSTITUTE	Pennsylvania, United States	Project Management Professional

3. FIELD (s) OF SPECIALIZATION

- a) BIM MANAGEMENT
- b) CONSTRUCTION PROJECT MANAGEMENT
- c) TECHNICAL PRODUCTION

4. PROFESSIONAL TRAININGS/SEMINARS ATTENDED

Program Description/Title	Name/Address of Provider	Role (e.g., Speaker)	Uni ts Ear ned	Dates Attended
ADVANCE LEVEL ENGINEERING WRITESHOP ASEAN AND APEC ENG'R REGISTRIES	PTC-MENA	ATTENDIES	8	2021 APRIL 02
TRAINING COURSE PROGRAM: PROJECT MANAGEMENT PROFESSIONAL	RSMETS-UAE	ATTENDIES	40	2017 JAN 27 - MARCH 10
TRAINING COURSE PROGRAM: PROJECT MANAGEMENT PROFESSIONAL PREPARATORY COURSE	SAVEFAST, UAE	ATTENDIES	35	2022 AUGUST 7 – SEPT
TRAINING COURSE PROGRAM: PROFESSIONAL ENGINEERING MANAGEMEN TRAINING	RSMETS-UAE	ATTENDIES	40	2016 AUG 12 - SEPT 30
TRAINING COURSE PROGRAM: BUILDING INFORMATION MANAGEMENT	RSMETS-UAE	ATTENDIES	40	2016 MAY 06 - JUNE 24
TRAINING COURSE PROGRAM: LEAN SIX SIGMA GREEN BELT TRAINING	RSMETS-UAE	ATTENDIES	40	2017 MAR 03 - APRIL 21
TRAINING COURSE PROGRAM:	GMC-UAE	ATTENDIES	40	2018 MAY 04- JULY 27

(SUPPORTING DOCUMENTS)

LEAN SIX SIGMA GREEN BELT TRAINING				
TRAINING COURSE PROGRAM:	RSMETS-UAE	ATTENDIES	40	2016 APRIL 15 - JUNE 03
LEED GREEN ASSOCIATE EXAM			10	
PREPARATORY COURSE				
TRAINING COURSE PROGRAM:	RSMETS-UAE	ATTENDIES	40	2017 SEPT 15 -
LEED AP EXAM PREPARATORY COURSE		ATTENDIEU	70	OCTOBER 13
				OUTOBER 13
2ND INTERNATIONAL CONFERRENCE IN	PSPPM & PUP- ABU	SPEAKER	4	2019 FEBRUARY 02
ARCHITECTURE AND ENGINEERING,	DHABI UAE			
CONSTRUCTION AND PROJECT MANAGEMEN				
2019 MID-YEAR ASSEMBLY OF THE PICE UAE	PICE UAE	SPEAKER	4	2019 JUNE 21
CHAPTER : THEME COMPETENCY		-		
ADVANCEMENT TOWARDS CE 4.0				
BIM REVIT ARCHITECTURE AND STRUCTURE	OFCEA-UAE	SPEAKER	16	2018 DECEMBER 7 & 1
2018 TRAINING COURSE		•••••••••••••••••••••••••••••••••••••••		
AUTODESK REVIT 2019 TRAINING COURSE	OFCEA-UAE	SPEAKER	16	2019 APRIL19 & 26
9 TH INTERNATIONAL TECHNICAL CONFERENCE			5	2022 APRIL 29 & 30
& 3 RD VIRTUAL COLLABORATION WEBINAR	NEVADA		Ŭ	
WITH PICE INTERNATIONAL CHAPTER				
2022 PICE MIDYEAR NATIONAL CONVENTION	PICE NATIONAL	ATTENDIES	15	2022 JUNE 17 & 18
AND TECHNICAL CONFERENCE		ATTENDIE0	10	
4 TH PICE INTERNATION CHAPTERS	PICE-UAE-ABU DHABI	ATTENDIES	2	2022 JULY 30
COLLABORATION WEBINAR : RESILIENT AND		ATTENDIEU	2	2022 0021 00
INNOVATICE SOLUTION IN THE CIVIL				
ENGINEERING SPECIALIZATION – DAY 1				
4 TH PICE INTERNATION CHAPTERS	PICE-UAE-ABU DHABI	ATTENDIES	2	2022 JULY 31
COLLABORATION WEBINAR : RESILIENT AND		ATTENDIEU	2	2022 0021 01
INNOVATICE SOLUTION IN THE CIVIL				
ENGINEERING SPECIALIZATION – DAY 2				
CAREER PATH ENHANCEMENT AND ADM / DI	PICE-UAE-ABU DHABI	ATTENDIES	8	2020 FEBRUARY 21
ENGINEER REGISTRATION SEMINAR		ATTENDIEU	0	
PICE 1 ST WEBINAR LECTURE SERIES : WATER	ΡΙΩΕ ΝΑΤΙΩΝΑΙ	ATTENDIES	2	2020 MAY 04
RESOURCES CHALLENGES	I IOL NATIONAL	ATTENDIEU	2	
PICE 1 ST WEBINAR LECTURE SERIES: IS SAR	ΡΙΩΕ ΝΔΤΙΩΝΔΙ	ATTENDIES	2	2020 MAY 05
COV-2 IN MY WATER OR SEWER. SUMMARY	I IOL NATIONAL	ATTENDIEU	2	
THE CURRENT SCIENCE				
PICE 1 ST WEBINAR LECTURE SERIES :	PICE NATIONAL	ATTENDIES	2	2020 MAY 06
GEOSYNTHETIC APPLICATIONS TO CIVIL		ATTENDIES	2	
ENGINEERING				
PICE 1 ST WEBINAR LECTURE SERIES :	PICE NATIONAL	ATTENDIES	2	2020 MAY 08
REBOOTING PUBLIC TRANSPORT FOR THE			2	
NEW NORMAL – IMPERATIVES FOR				
INFORMATION EXCHANGE AND				
COLLABORATIVE GOVERNANCE				
PICE 1ST WEBINAR LECTURE SERIES : SEISM			2	2020 MAY 09
DESIGN OF RC BEAMS OF SPECIAL MOMENT		ATTENDIES	2	ZUZU IVIAT US
FRANMES ACCORDING TO NSCP 2015			3	
WASTE WATER TREATMENT TECHNOLOGY	RSMETS-UAE	ATTENDIES	3	2016 NOVEMBER 18

NAME: RACHEL ROSAS ALCANTARA

(SUPPORTING DOCUMENTS)

TRAINING COURSE PROGRAM:	AUTODESK,	ATTENDIES	45	2009 APRIL 25-
AUTODESK REVIT 2009	MICROCADD-	ATTENDIES	43	JULY 11
AUTODESK REVIT 2009	PHILIPPINES			JOLT II
TRAINING COURSE PROGRAM:	AUTODESK.	ATTENDIES	45	2010 APRIL 05 - MAY 05
3D STUDIO MAX 2010)	ATTENDIES	45	2010 APRIL 05 - MAY 05
	MICROCADD-			
	PHILIPPINES		20	
TRAINING COURSE PROGRAM:	AUTODESK,	ATTENDIES	30	2008 AUGUST 10- SEPT
STAAD PRO 2004	MICROCADD-			14
	PHILIPPINES		70	
TRAINING COURSE PROGRAM:	AUTODESK,	ATTENDIES	70	2008 APRIL 10-
AUTOCAD 2008 WITH COLOR RENDERING	MICROCADD-			MAY 29
LEVEL I AND LEVEL II	PHILIPPINES			
AUTOCAD 2009 UPGRADE	AUTODESK,	ATTENDIES	3	2008 JUNE 02
	MICROCADD-			
	PHILIPPINES			
TRAINING COURSE PROGRAM:	AUTODESK, CADD	ATTENDIES	40	2016 JULY 29 –AUGUST
AUTODESK CIVIL 3D 2016	CENTRE PHILIPPINES			24
TRAINING COURSE PROGRAM:	OFCEA-UAE	ATTENDIES	16	2019 AUGUST
FIDIC CONTRACTS ADMINISTRATION &				7 & 16
MANAGEMENT TRAINING				
TRAINING COURSE PROGRAM:	OFCEA-UAE	ATTENDIES	16	2019 MARCH
QUALITY ASSURANCE / QUALITY CONTROL				8 & 15
TRAINING				
TRAINING COURSE PROGRAM:	OFCEA-UAE	ATTENDIES	16	2019 OCTOBER
PRIMAVER BASIC TRAINING COURSE				11 & 18
TRAINING COURSE PROGRAM:	OFCEA-UAE	ATTENDIES	16	2019 FEBRUARY
ETABS AND SAFE TRAINING COURSE				15 & 22
TRAINING COURSE PROGRAM:	OFCEA-UAE	ATTENDIES	16	2019 JULY 6 & 13
AUTODESK REVIT 2019 FAÇADE TRAINING				
COURSE				
TRAINING COURSE PROGRAM:	EP&MDT-UAE	ATTENDIES	24	2020 NOV 05 - NOV 26
MICROSOFT POWER BI				
RELATICS TRAINING CONFIGURATION BASIC	BESIX-UAE	ATTENDIES	5	2018 JULY 10
BESIX POTENTIAL ACADEMY	BESIX-UAE	ATTENDIES	8	2019 OCT 15
HIGH RISE BUILDING TRAINING			-	
TRAINING COURSE PROGRAM:	EP&MDT-UAE	ATTENDIES	24	2020 NOV 05 – NOV 26
MICROSOFT POWER BI			- '	
TEKLA STRUTURES INTERMIDIATE TRAINING	VTS-PHILIPPINES	ATTENDIES	20	2018 FEBRUARY19-23
COURSE			20	
TEKLA STRUTURES ADVANCE TRAINING	VTS-PHILIPPINES	ATTENDIES	15	2018 FEBRUARY 29 –
COURSE			10	MARCH 2
(Submitted Supporting Documents)				

(Submitted Supporting Documents)

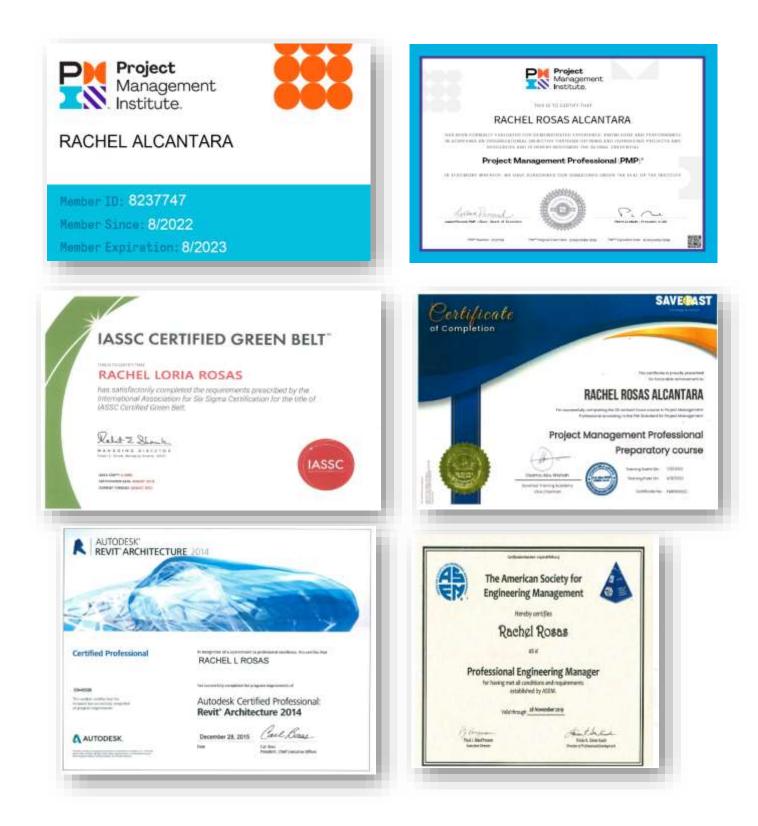
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SUPPORTING DOCUMENT'S PART 1 PERSONAL DETAILS

≫✓ENTURES CONNECT

PATH TO BIM CHAMPION AWARD (SUPPORTING DOCUMENTS)



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PATH TO BIM CHAMPION AWARD (SUPPORTING DOCUMENTS)







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SUPPORTING DOCUMENT'S PART 2 STRATEGY AND LEADERSHIP

NAME: RACHEL ROSAS ALCANTARA



BESIX: GLOBAL BIM LIBRARIES

- GLOBAL SHAREPPOINT
- MIDDLE EAST SERVER (BACKUP)

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	+ New - I Page details III Analytics						
	News + add -		Quick links				
		Keep your team updated with news on your team site					
		From the site home page you'll be able to quickly author a news post - a status update, trip report, pr.,					
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		^	D Name -				
Name		See al	01 BIM Management Plan				
01 B	IM CONTRACTUAL AND LEGAL	DOCUMENTS	CZ BIM Standards				
_	IM EQUIPMENT AND SOFTWAR	03 BIM References					
=	EY PERFORMACE INDICATOR		04 80M Literature				
		06 BIM Presentations					
	IM PROJECT PLANIFICATION	07 Bild Research					
30 B	IM VISION, MISSION, AND STRA	TEGY	10 SIM Budget Tools				
🔥 31 B	IM MANAGEMENT		59 Varia				
32 B	IM STANDARD		MIGRATION TODO				
33 B	IM REFERENCES						
34 B	IM LITERATURE	gning					
35 B	IM CONFERENCES						
36 B	IM PRESENTATION						
37 B	IM RESEARCH						
38 B	IM ISO 19650 CERTIFICATION						



(SUPPORTING DOCUMENTS)

GLOBAL: BESIX SOAP BOX MEETING ORGANIZER: BESIX HO IN BRUSSEL SINCE 2021 DECEMBER PRESENTOR: RACHEL ROSAS

Weekly Technical Topics for digital enthusiast (presence is optional, language = EN, session will always be recorded) Recordings can be found on this link : 04. Technical Soapbox

If you have an interesting topic : @Huy, Hoang or @Vandenbogaerde, Kristof

Some rules when you are presenting a topic :

- · Brief introduction : what's the purpose of the tool, procedure etc.
- Keep it technical, but not too technical (Audience = BIM Modelers, Steel, Façade, Methods, Planning...)
- Max. 30 minutes of presentation. 15 minutes of guestions afterward.
- Try to show some live demonstrations... it shows more than a PowerPoint.

Agenda

10/02/2023: BIM Coordination with Aconex IMS by Hoang Pham (SMV) 03/02/2023: KLIP to BIM Tool by Mathieu Ophoff (R4) 27/01/2023: Bexel Manager by Veliko Janijc

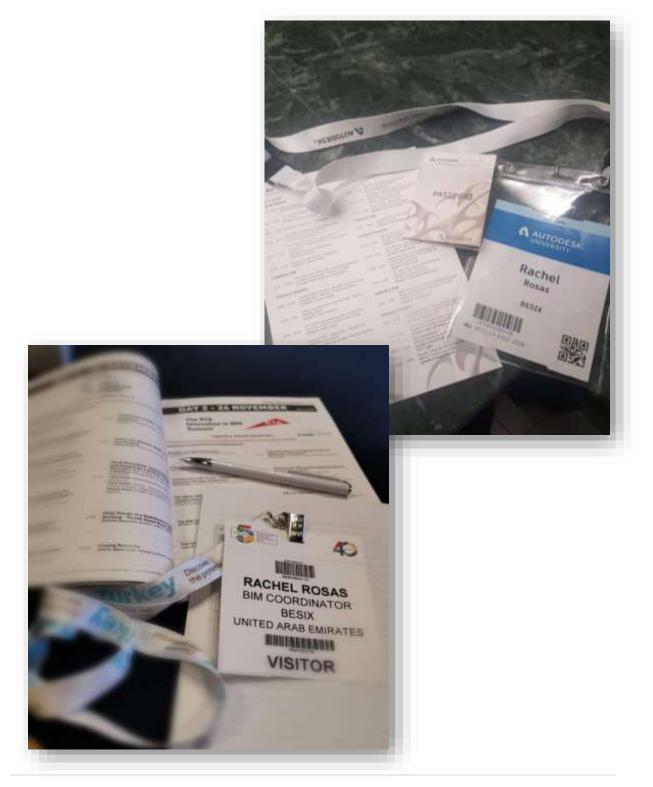
13/01/2023 - KBM - BIM @ Dubai Waste to Energy

- Rachel L.Rosas (Dubai) – Laser Scanning @ Lusail Tower 02/12/2022 - Cancelled 25/11/2022 - Michele Ambrosino (ULB) - Brikiebots 18/11/2022 - Cancelled 11/11/2022 - No Soapbox - Fall break 04/11/2022 - No Soapbox - Fall Break 28/10/2022 - LLE - Genus & Power BI 21/10/2022 - RCO - ISO19650 (15h Bxl Time) 14/10/2022 – ALU - Analytical modelling in Revit 07/10/2022 - KDS - BIM Server 30/09/2022 - KHE - GIS@ROCO 23/09/2022 - TST (Qonic) - QONIC: Accurate BIM 09/09/2022 - FPI - BIM Interoperability Tools for Revit 02/09/2022 - MMU - BIM Integration with Tekla (to be co 26/08/2022 - MRO - Solibri Bulacet exception by the 26/08/2022 - MRO - Solibri Ruleset manager by MRO 19/08/2022 - ScaledRobotics by Stuart Maags ---- Summer Break -----24/06/2022 - TBD 22/06/2022 – ISD – Internship report (automatization of th 17/06/2022 – LSA – Internship report (automatization of th 15/10/2021 – LLE – Neanex Portal on COTU 03/06/2022 - HHU - Folder Structure on BIM360/ACC 20/05/2022 - LLE - BIM360 + PowerBI 13/05/2022 - YDI - ConVoid Plugin for Revit (Coordinatio) 13/08/2021 - EHE - Revit Model Checker & LOI Automation 06/05/2022 - BED Event - No Soapbox

06/05/2022 - BED Event - No Soapbox 29/04/2022 - KG-Dev - BIM & Dashboarding (KG-dev.be) 22/04/2022 - KRO - Speckle 15/04/2022 - BESIX BE Holiday - No Soapbox 15/04/2022 - QSW - Kabandy 01/04/2022 - No Soapbox 25/03/2022 - LLE - Globalmapper 18/03/2022 - YDI - Diroots Revit Plugin 11/03/2022 - KDS - iConstruct 04/03/2022 - MJA - Main Principles of ISO19650 25/02/2022 -16/09/2022 – PAA - Solibri use case: LOI audit, progress & 18/02/2022 – (Cancelled)SVDW – BIM @ COTU Oosterweel Zinktunnel 11/02/2022 -10/12/2021 - PDC - LTF Volume Model & link to Model-statusses 03/12/2021 - Vincent Charlier - IDCapture on Clinic de Neuilly (FR) 29/10-12/11/2021 -- Automn Break -10/06/2022 – ADR – Task Automation @ RIGA-project 08/10/2021 – YDI/KDS – Autodesk Infraworks (Design vs Methods&Planning) 01/10/2021 - LRY - Revizto-usage @ WatPac 17/09/2021 - KDS - Navisworks iConstruct 06/08/2021 - JMA - Plannerly -- Summer-break --24/06/2021 - NHO - Dynamo & LBS-codes on LTE 21/05/2021 - LLE - Data Management with Python 07/05/2021 - HHU - Open Data Vlaanderen - Use of LIDAR-information 30/04/2021 - FLE - BESIX Classification 09/04/2021 - CWI - Reporting (BIMCollab/Planning) on LTF 02/04/2021 - (EDR - Dynamo-scripts for LTF - Cancelled) 26/03/2021 - LLE - R4 Project Overview 19/03/2021 - KVA - BIMCollab Zoom (Pro) 12/03/2021 - KVA - Revit IFC Export 19/02/2021 - ASBR - The wonders of SimpleBIM 12/02/2021 - KVA - RTV Exporter Pro, Revit Plugin for Automating exports of IFC/NWC/PDF/DWG_ 05/02/2021 - LSW - StabiCAD Openings Manager



MIDDLE EAST: EVENTS ATTENDED EVENT 1: AUTODESK UNIVERSITY 2018 EVENT 2: BIG 5 2019





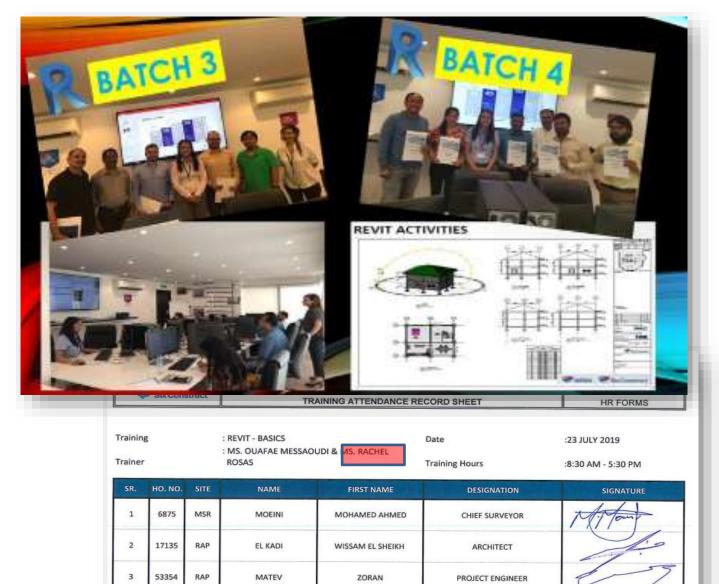
(SUPPORTING DOCUMENTS)

LUSAIL PROJECT: BIM TRAINING 2020 (5 BATCHES) PRESENTOR: RACHEL ROSAS ATTENDEES: PROJECT STAFF, (MAIN CONTRACTOR, PMC & SUBCONTRACTOR

• Revizto • And much more • Naviswork Freedom • Jo scanning • BIM360 • Gode • Oocument Management • Oscanning • Design Colleboration • Hist • Model Coordination • #	HOW IT WORKS
The training will be given to all teams : PMCM , MMJV Staff, Subcontractors and Suppliars. It schedule to run every second and forth Monday of the Month . Subjects and topics are in batches and invitation will be sent out througn email.	construction site - For defails and requesting for training please contact the BIM ambassadors below.
CERTIFICATE OF PAR	awarded to
BIM Manager Victor Gray who attended the training coun BIM360 Document Management on 28th Septemi Acces Rachel Loria Rosas BIM Manager / Trainer Johny I. Ibrahim Dy. Project Director	



MIDDLE EAST: BESIX REVIT TRAINING PRESENTOR 2019: RACHEL ROSAS ATTENDEES: PROJECTS SITE TEAM AND HEAD OFFICE



4	9517	DUT	SANKARA NARAYANAN	HARI KUMAR	SURVEYOR - SENIOR	
5	42172	MSR	ALSHANTI	JALAL AMEER AHMAD	PLANNING ENGINEER	
6	30447	DED	PAULOSE	ROY	DRAUGHTSMAN - FORMWORK DESIGNER - SENIOR	Beer Rauber
7	38188	MSR	NANGGAN	DEMETRIO	QUANTITY SURVEYOR	0
				SIX CONSTRUCT	TRAINING ATTENDANCE RE	CORD SHEET Page 1 of 1

NAME: RACHEL ROSAS ALCANTARA



(SUPPORTING DOCUMENTS)

MIDDLE EAST: BESIX REVIT TRAINING AND SFB CODES INTEGRATION 2017 (IN COLLABORATION WITH BRUSSELS) PRESENTOR: OLIVIER PERSH ASSISTANT: RACHEL ROSAS ATTENDEES: PROJECT SITES STAFF AND HEAD OFFICE





MIDDLE EAST: BESIX REVIT TRAINING 2016 PRESENTOR 2016: RACHEL ROSAS ATTENDEES: MARINE TEAM



iner		3	Ms. Rachel Rosas		Training Hours	: 8:30 AM - 5:00 PM
R.	HO. NO.	SITE	NAME	FIRST NAME	DESIGNATION	SIGNATURE
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				SIX CONSTRUC	T TRAINING ATTENDANCE F	RECORD SHEET Page 1

★VENTURES CONNECT

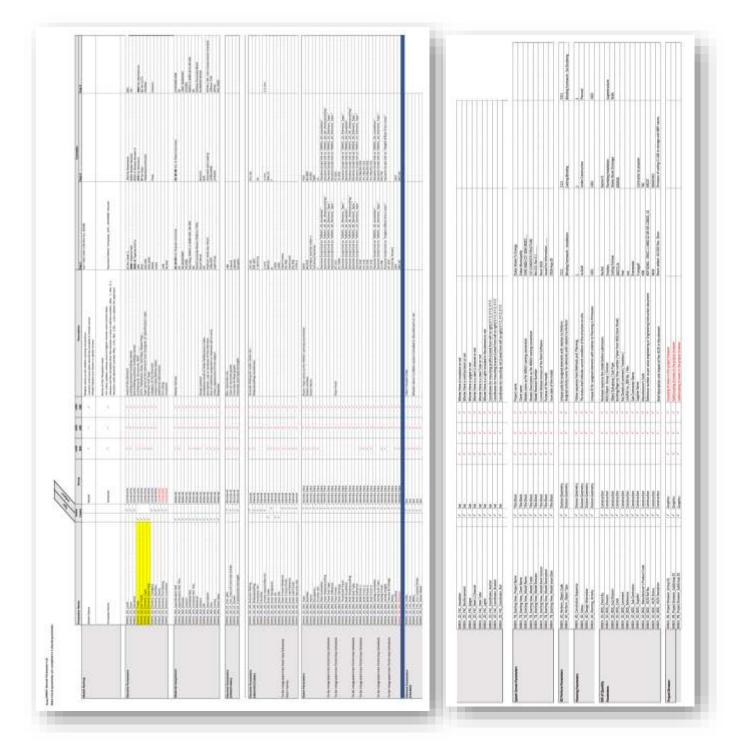
PATH TO BIM CHAMPION AWARD (SUPPORTING DOCUMENTS)

LUSAIL PROJECT : BIM LIBRARIES & STANDARD

00 Evaluation	📙 05 Organizational Chart
00 LESSON LEARN	📙 05 Site Template
00 Timesheet	05 Work Flow
01 Execution Plan	6 BIM360
01 Forms	📙 06 Folder Template
02 BIM Standard - BIM FORUM	07 Minutes of Meeting
02 Cad Standard	08 Job Description
02 Document Codification	09 Power Bl
02 Logo	10 Softwares
02 Model Element List	11 Subcon Material Tracker
02 Model List	- 12 Shop Drawings - Templa
02 Naviswork Setting	13 Shop Drawing Master Io
02 Parameter List	14 QR Code - f5
02 Quality Check	15 Revizto
02 Revit Template	16 Attendace
02 Revizto Template	17 Letters
02 Shared Parameter	18 Progress - Claims
03 3D Clash Detection	19 Leave Forms
03 4D Simulation	20 Project Deliverables
03 5D Quantities	21 Software Matrix
03 Cobie	22 Label
03 MIDP	23 KPI Sample
03 Perform	30 RFI List
04 Dynamo	31 Request IT
04 Families	32 Change Request
05 Contact Directory	Lusail City Master Plan
05 Job Description	Lusail_Smart_City



LUSAIL : PROJECT PARAMETER LIST



★ VENTURES CONNECT

PATH TO BIM CHAMPION AWARD

(SUPPORTING DOCUMENTS)

PROJECT : JOB DESCRIPTION IN LUSAIL PROJECT

mldmac MIC Construct	Integrated Management System	Ver. Oct 2017		
	JOB DESCRIPTION	HR FORM		
Employee Name (RACHEL LORIA RO		Number: 19537		
Designation at jobsite Janding (if applicable) Project/ Department Taports to (Line Manager) TESULTAREAS: HESPONSIEILTHE	BIM MANAGER 562/QLT – BIM DEPARTMENT			
Report directly to programme c Responsible for the creation of Information Requirements (AIF Processing all the information Client and Project Managemen Responsible for setting up the : Responsible for setting up the : Responsible for setting the the Information models. To provide a helping hand to contruction timeline. Monitoring the BIM performan collaborative workplace REFORMANCE OBJECTIVES TO AC Assisting Estimator & Quantity	standard, templates and workflow to be used in the IM Common Data Environment (CDE) to be utilize project planners by creating 4d simulation base in ce of an entire supply chain for potential improve MICVE Surveyors in 5D models.	et et I BIM reports needed by project. Id for the preparation of in the ImIdmac [¹ /MIC Construct	Integrated Management System JOB DESCRIPTION	Ver. Oct 2017 HR FORM
		the I Overall 9 years experiency modeling from bolt local great Has technical working exp management system and i Produced quality movie of Conduct numerous presi Hinh Rise Audition Overal 10 years experience Hinh Rise Audition Statistics Hinh Rise Audition Statistics Hinh Rise Audition Overal 10 years experience Hinh Rise Audition Statistics Hinh Rise Audition Statistics Hinh Rise Audition Hinh Rise Audition Hinh Rise Audition Statistics Hinh Rise Audition Hinh Ri	erience in preparing project BIM execution plan, B ormpany BIM standarization and set-ups. Iash detection and quantify report as per the Bill qua- tion model aimutations and rendered animation for Citi- aning provider for in house staff and outside the orgi- e and technical talks in conferences. Iglous BIM projects, Here are the following: Financial District in Doha Quiar, (2011-2016) Pionenhit Bangkott Thaitand, (2014-2016) Pionenhit Bangkott Thaitand, (2014-2016) Pionenhit Bangkott Thaitand, (2014-2016) Pionenhit Bangkott Thaitand, (2014-2016) Cital office tower of Juliee Place in Brisbane, Australi aza in Qatar (Present) Hub consist of 7 storey stactum, 3 storey Aquat- rens, 2 storey water sports center, commercial fac- t and Casho consist of hotel buildings, casino comp Cit4) Storey and Casho consist of hotel buildings, casino comp Cit4) so consist of Julie berth jetty and breakwater in H B) sy consist of 3 buildings and Integrated landscag in Pavilion for Expo2020 event in Dubal, UAE (2017- Jubal, UAE (2017) (June Mgz. / Proj. Dir. / Prof Mg Name: Cita Mg & Budgettig	M manual , BIM Quality nitries format. mt presentation. mt calls and the set of the s



SUPPORTING DOCUMENT'S PART 3 PLANNING

NAME: RACHEL ROSAS ALCANTARA



EXPERTISE QUALIFICATION

- CERTIFIED AUTODESK CERTIFIED PROFESSIONAL
- ATTENDED BESIX TRAINING FOR HIGH RISE BUILDING, HOST BY BESIX POTENTIAL ACADEMY
- CERTIFICATE OF COMPLETION IN BUILDING INFORMATION MODELLING AND MANAGEMENT
- CERTIFICATE OF COMPLETION IN PRIMAVERA TRAINING
- CERTIFICATE OF COMPLETION IN FIDIC CONTRACTS
 & ADMINISTRATION & MANAGEMENT TRAINING

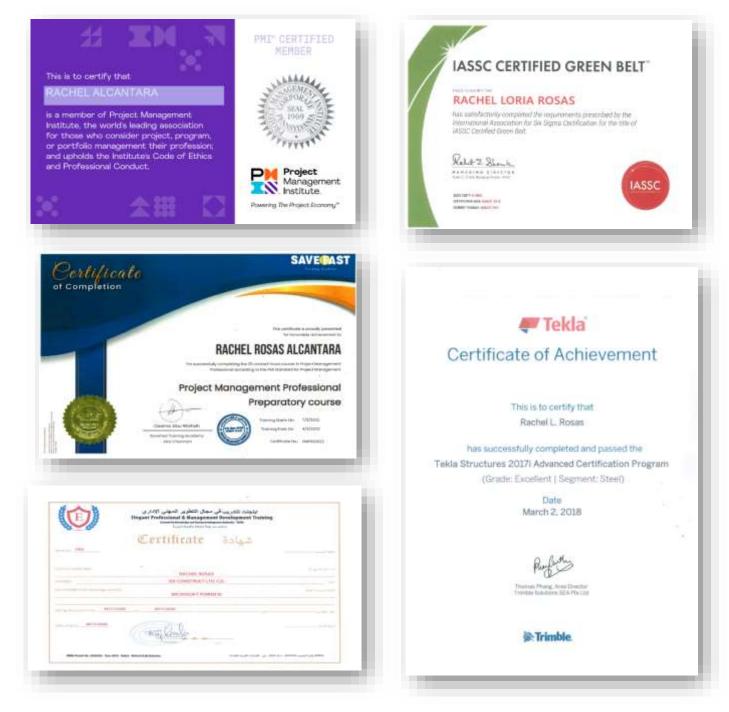




(SUPPORTING DOCUMENTS)

EXPERTISE QUALIFICATION

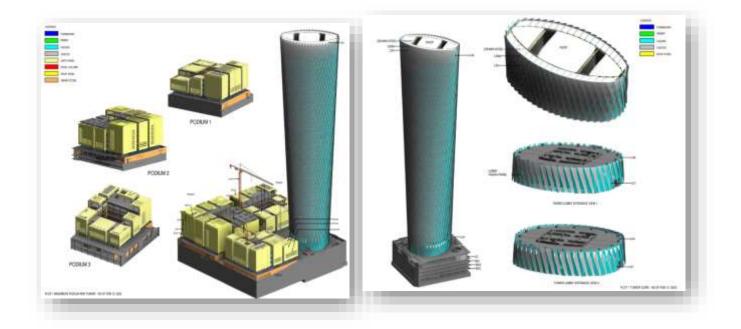
- CERTIFIED IASSC LEAN SIX SIGMA GREEN BELT •
- MEMBER OF PROJECT MANAGEMENT INSTITUTE
- CERTIFICATE OF COMPLETION PROJECT MANAGEMENT PREPARATORY COURSE
- CERTIFICATE OF COMPLETION IN POWER BI •
- CERTIFICATE OFACHIVEMENT IN TREMBLE: PASSED TEKLA ADVANCE PROGRAM •





PROJECT SAMPLE IN LUSAIL PROJECT: SITE PROGRESS IN 3D PRESENTATION

PLOT 1: AS OF FEB 12, 2023 FOR CONSTRUCTION WEEK NO. 151 WAS UPLOADED IN BIM360

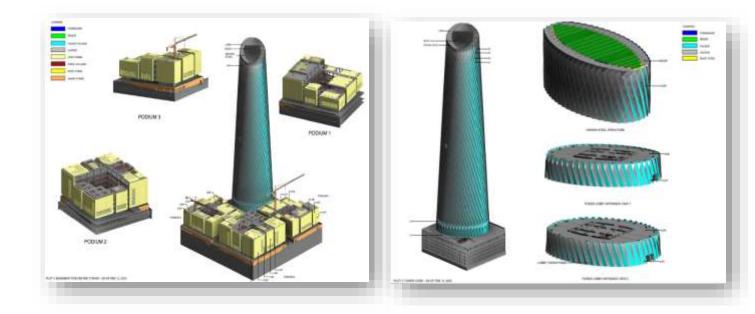


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PROJECT SAMPLE IN LUSAIL PROJECT: SITE PROGRESS IN 3D PRESENTATION

PLOT 2: AS OF FEB 12, 2023 FOR CONSTRUCTION WEEK NO. 151 WAS UPLOADED IN BIM360



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PROJECT SAMPLE IN LUSAIL PROJECT: SITE PROGRESS IN 3D PRESENTATION



PLOT 1 & 2: AS OF FEB 01, 2023 FOR CONSTRUCTION WEEK NO. 150 UPLOADED IN ACONEX BIM MODEL INTEGRATION IN ACONEX FOR EMPLOYER AND MANAGEMENT REVIEW



PROJECT SAMPLE IN LUSAIL PROJECT: 4D CONSRUCTION SEQUENCE BASELINE PROGRAM APPROVED DOCUMENTS FOR REFERENCE



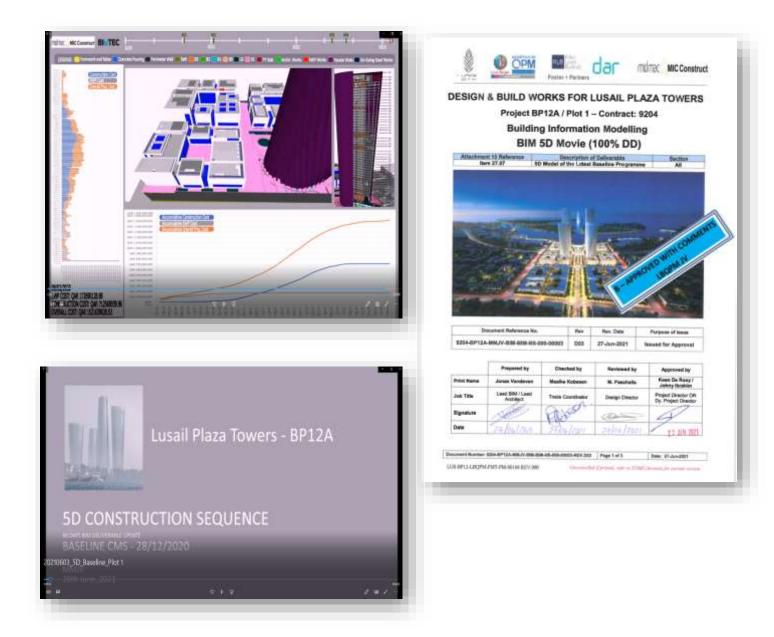
SLAB LIFE CYCLE BASELINE VS ACTUAL



- BASELINE PROGRAM
- APPROVED DOCUMENTS FOR REFERENCE



- SLAB LIFE CYCLE
- BASELINE VS ACTUAL



PROJECT SAMPLE IN LUSAIL PROJECT: 3D PROGRESS IN HIGH RENDERING RESOLUTION 2 MONTHS LOOK AHEAD OF PROJECT PROGRESS TO THE FIFA WORLD CUP 2022 IN QATAR



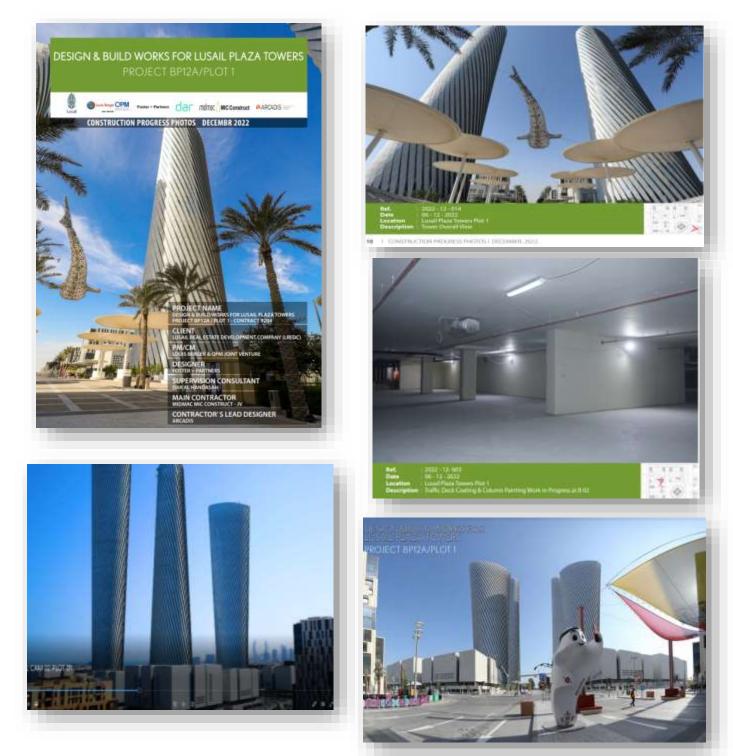


PROJECT SAMPLE IN LUSAIL PROJECT:

• ACTUAL PROGRESS ON SITE AS OF DEC 2022 DURING FIFA WORLD CUP 2022



• 600 PHOTOS, 2NOS VIDEOS, 4NOS TIMELAPSE



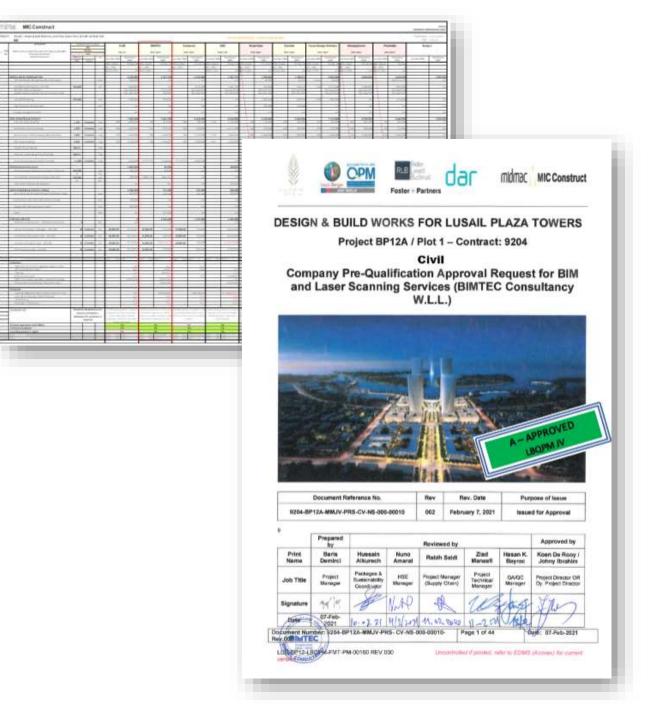
PROJECT SAMPLE IN LUSAIL PROJECT: PROCESS IN EVALUATING SUBCONTRACTOR

NAME: RACHEL ROSAS ALCANTARA



BIM SPECIALIST COMPARISON SHEET

• PRE-QUALIFICATION DOCS FOR AWARDED SUBCONTRACTOR FOR BIM & LASER SCANNING





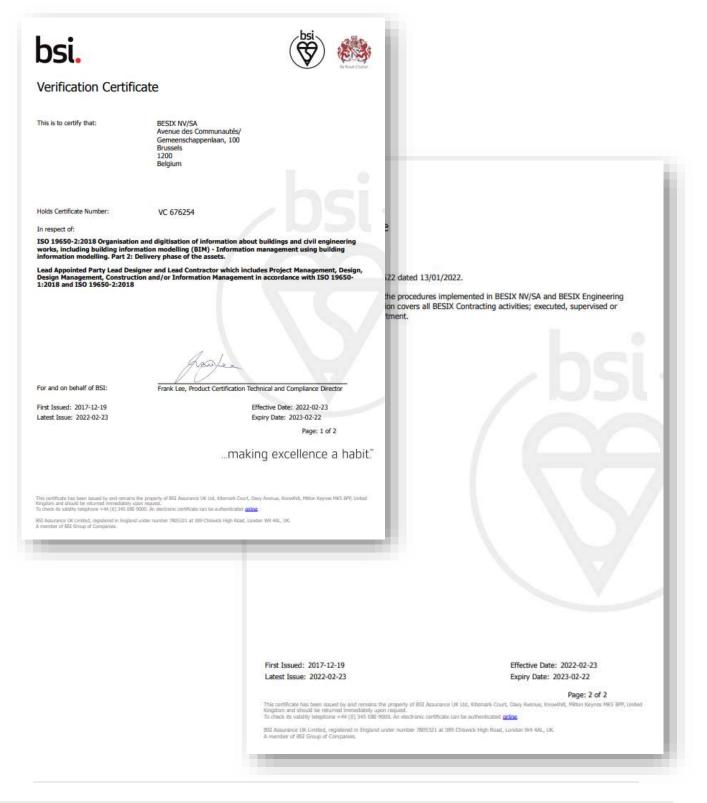
SUPPORTING DOCUMENT'S PART 4 MANAGEMENT AND OPERATION

NAME: RACHEL ROSAS ALCANTARA



GLOBAL BESIX CERTIFICATION IN BSI

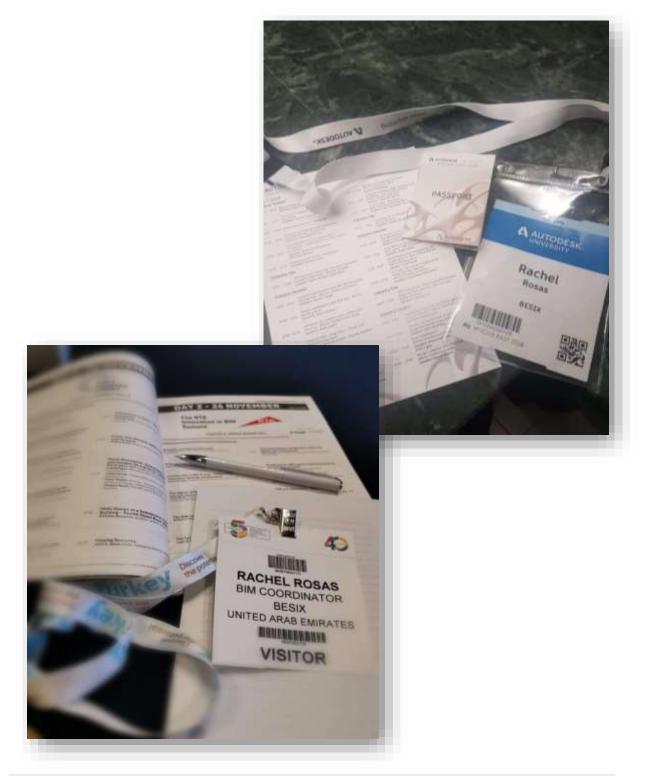
• VERIFICATION CERTIFICATE IN BIM ISO STANDARD 19650-2-2018 (2017-2023)



NAME: RACHEL ROSAS ALCANTARA



MIDDLE EAST: EVENTS ATTENDED EVENT 1: AUTODESK UNIVERSITY 2018 EVENT 2: BIG 5 2019





(SUPPORTING DOCUMENTS)

MIDDLE EAST: BIM TRAINING IN LUSAIL TOWERS PRESENTOR: RACHEL ROSAS ATTENDEES: PROJECT STAFF, (MAIN CONTRACTOR, PMC & SUBCONTRACTOR

• Revizto • And much more • Naviswork Freedom • And much more • BIM360 • Document Management • Document Management • -QR Code • Model Coardination • -Aret	HOW IT WORKS
The training will be given to all teams : PMEM , MMJV Staff, Subcontractors and Suppliers. It schedule to run every second and forth. Monday of the Month . Subjects and topics are in batches and invitation will be sent out through emails.	construction site . For details and requesting for training please contact the BIM ambassadors below.
midmac MIC Construct	
BIM Manager Victor & who attended the In BIM360 Document Management on 28 Rachel Loria Rosas	aining course ith September 2020, Doha Qatar
BiM Manager / Trainer Dy. Project Direct	tor Project Director



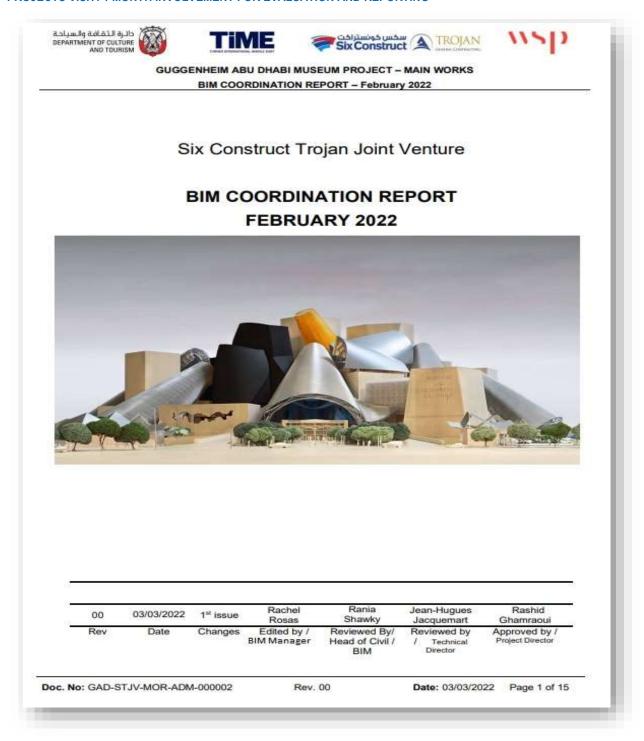
MIDDLE EAST: BESIX REVIT & BIM REQUIREMENTS TRAINING PRESENTOR 2019: RACHEL ROSAS ATTENDEES: PROJECTS SITE TEAM AND HEAD OFFICE



ainer			: MS. OUAFAE MESSAOU ROSAS	DI G MIS. NACHEL	Training Hours	:8:30 AM - 5:30 PM
SR.	HO. NO.	SITE	NAME	FIRST NAME	DESIGNATION	SIGNATURE
1	6875	MSR	MOEINI	MOHAMED AHMED	CHIEF SURVEYOR	Mont
2	17135	RAP	EL KADI	WISSAM EL SHEIKH	ARCHITECT	1º
3	53354	RAP	MATEV	ZORAN	PROJECT ENGINEER	17
4	9517	DUT	SANKARA NARAYANAN	HARI KUMAR	SURVEYOR - SENIOR	
5	42172	MSR	ALSHANTI	JALAL AMEER AHMAD	PLANNING ENGINEER	
6	30447	DED	PAULOSE	ROY	DRAUGHTSMAN - FORMWORK DESIGNER - SENIOR	Beeglaube
7	38188	MSR	NANGGAN	DEMETRIO	QUANTITY SURVEYOR	0
				SIX CONSTRUCT	T TRAINING ATTENDANCE R	ECORD SHEET Pag



MIDDLE EAST: START UP OF NEW PROJECT (GUGGENHEIM ABU DHABI MUSEUM PROJECT PREPARED BY: RACHEL ROSAS PROJECTS VISIT: 1 MONTH INVOLVEMENT FOR EVALUATION AND REPORTING





(SUPPORTING DOCUMENTS)

MIDDLE EAST: START UP OF NEW PROJECT (GUGGENHEIM ABU DHABI MUSEUM PROJECT **PREPARED BY: RACHEL ROSAS** PROJECTS VISIT: 1 MONTH INVOLVEMENT FOR EVALUATION AND REPORTING (22 PAGES)

- MIDP •
- **BIM COORDINATION BIM MEETING**
- **PROPOSED BIM RATING**

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NAME: RACHEL ROSAS ALCANTARA

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(SUPPORTING DOCUMENTS)

BESIX GLOBAL: BESIX SOAP BOX MEETING ORGANIZER: BESIX HO IN BRUSSEL SINCE 2021 DECEMBER PRESENTOR: RACHEL ROSAS

Veekly Technical Topics for digital enthusiast (presence is lecordings can be found on this link : 04. Technical Sc	s optional, language = EN, session will always be recorded) papbox				
you have an interesting topic : @Huy, Hoang or @Vande	enbogaerde, Kristof				
ome rules when you are presenting a topic :					
 Brief introduction : what's the purpose of the tool, 	procedure etc.				
 Keep it technical, but not too technical (Audience = BIM Modelers, Steel, Façade, Methods, Planning) Max. 30 minutes of presentation. 15 minutes of questions afterward. 					
genda					
0/02/2023: BIM Coordination with Aconex IMS by Hoang	Pham (SMV)				
3/02/2023: KLIP to BIM Tool by Mathieu Ophoff (R4)					
7/01/2023: Bexel Manager by Veliko Janijc					
3/01/2023 – KBM – BIM @ Dubai Waste to Energy					
9/12/2022 – Rachel L.Rosas (Dubai) – Laser Scanning @ L	usail Tower				
2/12/2022 - Cancelled					
5/11/2022 – Michele Ambrosino (ULB) – Brikiebots	06/05/2022 - BED Event - No Soapbox				
8/11/2022 – Cancelled	29/04/2022 – BED Event – NO Scapbox 29/04/2022 – KG-Dev – BIM & Dashboarding (KG-dev.be)				
/11/2022 – No Soapbox – Fall break	22/04/2022 - KRO - Speckle				
4/11/2022 – No Soapbox – Fall Break	15/04/2022 – BESIX BE Holiday – No Soapbox				
8/10/2022 – LLE – Genus & Power Bl	08/04/2022 - QSW - Kabandy				
l/10/2022 – RCO – ISO19650 (15h Bxl Time)	01/04/2022 – No Soapbox				
I/10/2022 – ALU - Analytical modelling in Revit	25/03/2022 – LLE - Globalmapper 18/03/2022 – YDI – Diroots Revit Plupin				
7/10/2022 – KDS – BIM Server	11/03/2022 - KDS - iConstruct				
0/09/2022 – KHE – GIS@ROCO	04/03/2022 – MJA – Main Principles of ISO19650				
3/09/2022 – TST (Qonic) – QONIC: Accurate BIM	25/02/2022 -				
5/09/2022 – PAA - Solibri use case: LOI audit, progress &	18/02/2022 – (Cancelled)SVDW – BIM @ COTU Oosterweel Zinktunnel				
9/09/2022 – FPI – BIM Interoperability Tools for Revit	11/02/2022 – 04/02/2022 – OPE – Revit Shared Coordinates				
2/09/2022 – MMU - BIM Integration with Tekla (to be co	28/01/2022 -				
6/08/2022 – MRO – Solibri Ruleset manager by MRO	Winter Break				
9/08/2022 – ScaledRobotics by Stuart Maags	10/12/2021 – PDC – LTF Volume Model & link to Model-statusses				
Summer Break	03/12/2021 – Vincent Charlier – IDCapture on Clinic de Neuilly (FR)				
4/06/2022 - TBD	29/10-12/11/2021 Automn Break 22/10/2021 ADR Lessons Learned on Mozambique LNG				
7/06/2022 – LSA – Internship report (automatization of th	15/10/2021 – LLE – Neanex Portal on COTU				
0/06/2022 – ADR – Task Automation @ RIGA-project	08/10/2021 – YDI/KDS – Autodesk Infraworks (Design vs Methods&Planning)				
3/06/2022 - HHU - Folder Structure on BIM360/ACC	01/10/2021 – LRY – Revizto-usage @ WatPac				
0/05/2022 – LLE – BIM360 + PowerBI	17/09/2021 – KDS – Navisworks iConstruct 17/09/2021 – KDS – Navisworks iConstruct				
/05/2022 - YDI - ConVoid Plugin for Revit (Coordination	06/08/2021 – JMA – Plannerly				
5/05/2022 – BED Event – No Soapbox	Summer-break				
	24/06/2021 – NHO – Dynamo & LBS-codes on LTF				
	21/05/2021 – LLE – Data Management with Python				
	07/05/2021 – HHU – Open Data Vlaanderen – Use of LIDAR-information 30/04/2021 - FLE - BESIX Classification				
	09/04/2021 - FLE - BESIX Classification 09/04/2021 - CWI - Reporting (BIMCollab/Planning) on LTF				
	02/04/2021 – (EDR – Dynamo-scripts for LTF - Cancelled)				
	26/03/2021 – LLE – R4 Project Overview				
	19/03/2021 – KVA – BIMCollab Zoom (Pro)				
	12/03/2021 – KVA – Revit IFC Export				
	19/02/2021 – ASBR – The wonders of SimpleBIM 12/02/2021 – KVA – RTV Exporter Pro, Revit Plugin for Automating exports of IFC/NWC/PDF/DWG.				
	05/02/2021 – KWA – KTV Exponenting, Kevit Hugin for Automating exports on PC/MVC/PDP/DVRs				



SUPPORTING DOCUMENT'S PART 5 TECHNICAL EXECUTION

NAME: RACHEL ROSAS ALCANTARA



(SUPPORTING DOCUMENTS)

LUSAIL PROJECT: BIM DOCUMENTS PREPARED BY: JONAS AND RACHEL STATUS: APPROVED (105 PAGES)

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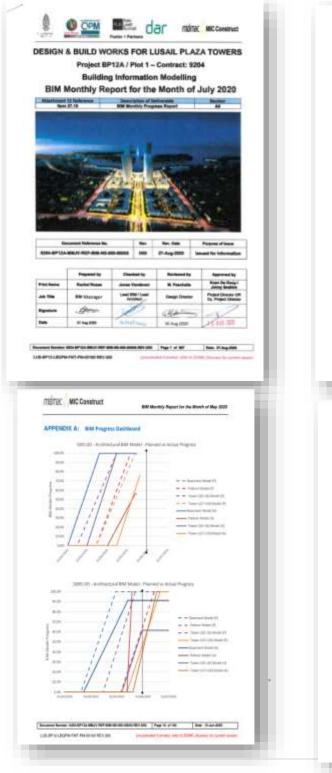
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LUSAIL PROJECT: BIM MONTHLY REPORT PREPARED BY: RACHEL & JONAS STATUS: FOR INFORMATION (194 PAGES)





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NAME: RACHEL ROSAS ALCANTARA

DATE: FEB 06, 2024

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LUSAIL PROJECT: BIM MATURITY MATIX PREPARED BY: RACHEL ROSAS STATUS: FOR INFORMATION (27 PAGES)

 MATURITY MATRIX WERE PREVIOUSLY SUBMITTED IN A DIFFERENT DOCUMENT AND THEN BECOME A PART OF BIM MONTHLY REPORT.



NAME: RACHEL ROSAS ALCANTARA

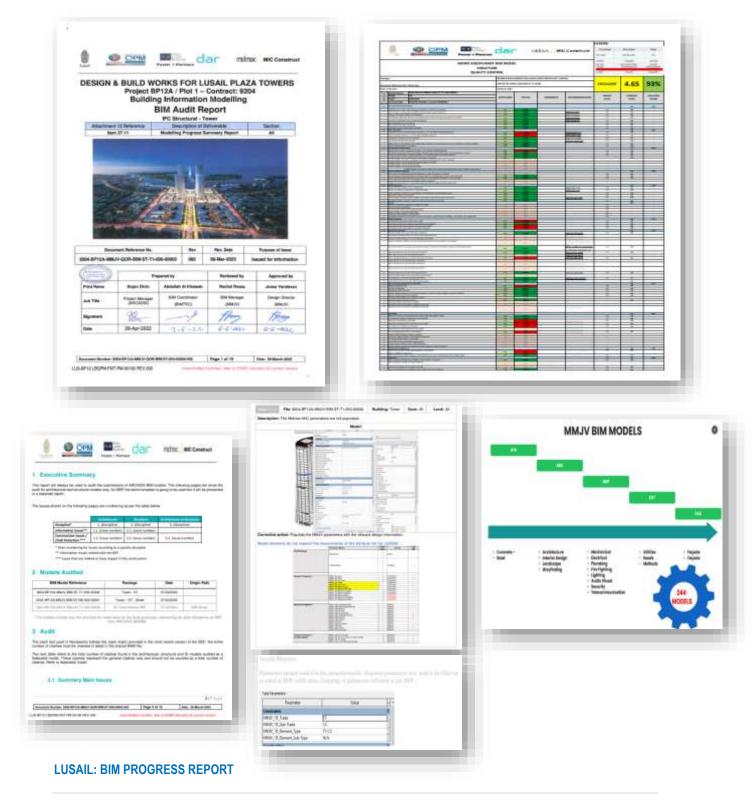


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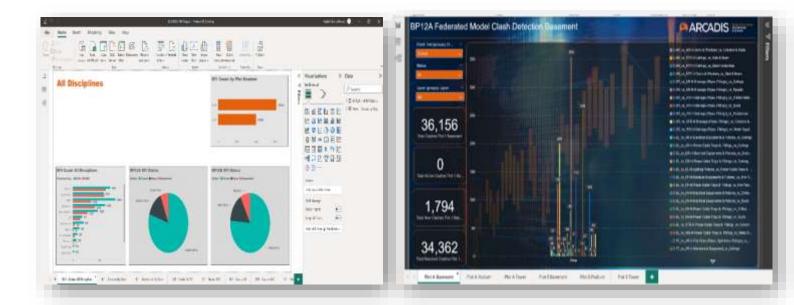


(SUPPORTING DOCUMENTS)

PREPARED BY: RACHEL ROSAS STATUS: FOR INFORMATION – BIM REPORTING WITH POWER BI INTEGRATION





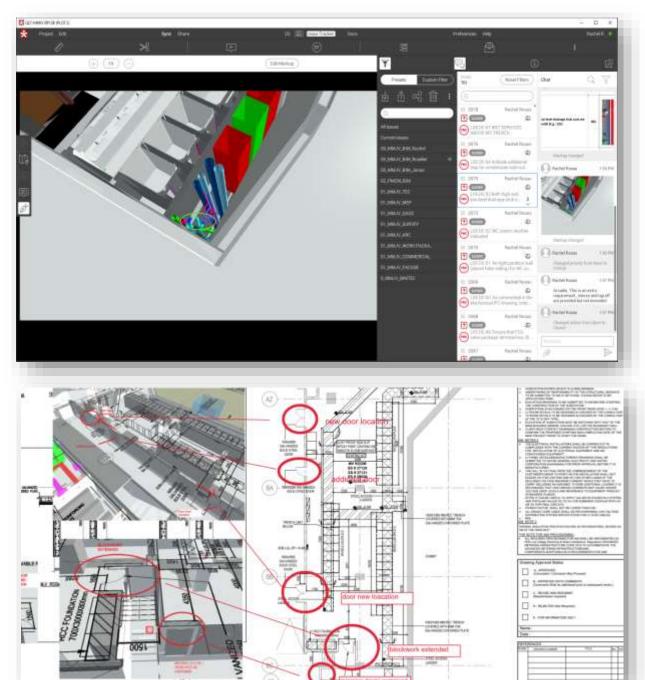


LUSAIL PROJECT: BIMCCORDINATION REPORT



PREPARED BY: RACHEL ROSAS STATUS: FOR INFORMATION – BIM REPORTING WITH REVIZTO INTEGRATION

- CLOSED ISSUES IN REVIZTO : OBSERVATION & COMMENTS
- 2D OVERLAY WITH LOD400, AND REVIEWING THE COMMENTS FROM KARAHMAA AUTHORITY

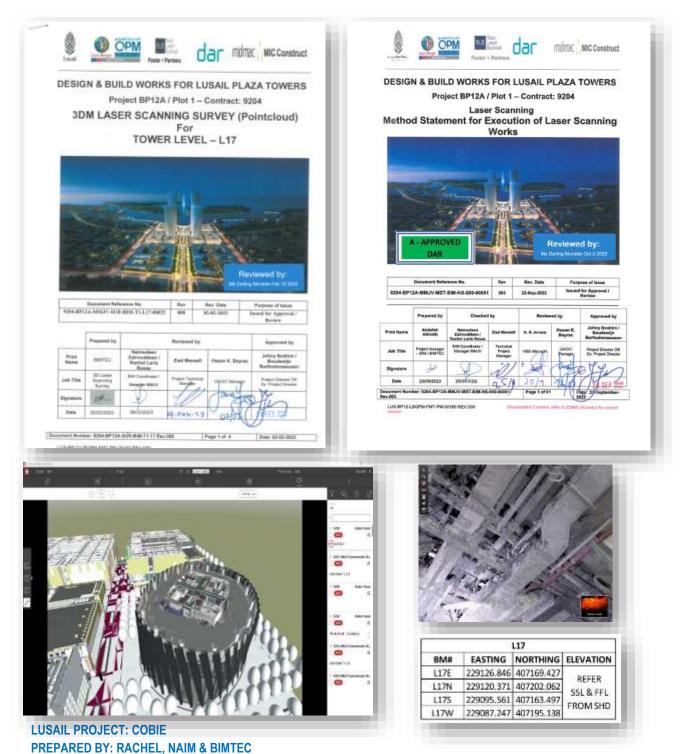


LUSAIL PROJECT: LASER SCANNING PREPARED BY: RACHEL, NAIM & BIMTEC



STATUS: FOR INFORMATION - BIM REPORTING WITH REVIZTO& LEICA INTEGRATION

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- SAMPLE OF LEVEL 17 WITH STATUS OF ODE B-APPROVED WITH COMMENTS





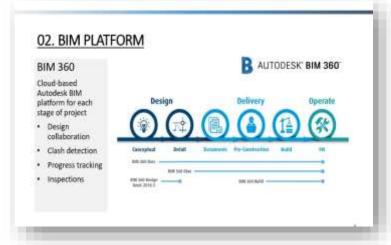
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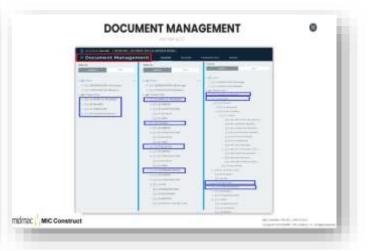
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- SUBMITTED THE PROPOSED COBIE PROCESS
- LISTED THE REQUIRED FACILITY MANAGEMENT REQUIRED INFORMATION AND ITS EQUIVALENT TO COBIE

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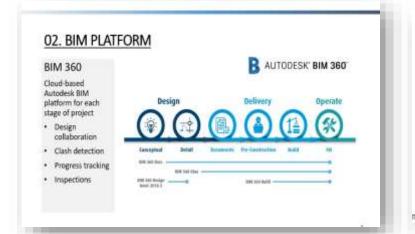
SUPPORTING DOCUMENT'S PART 6 INNOVATION

NAME: RACHEL ROSAS ALCANTARA



(SUPPORTING DOCUMENTS)

LUSAIL PROJECT: BIM360 **PREPARED BY: RACHEL ROSAS**



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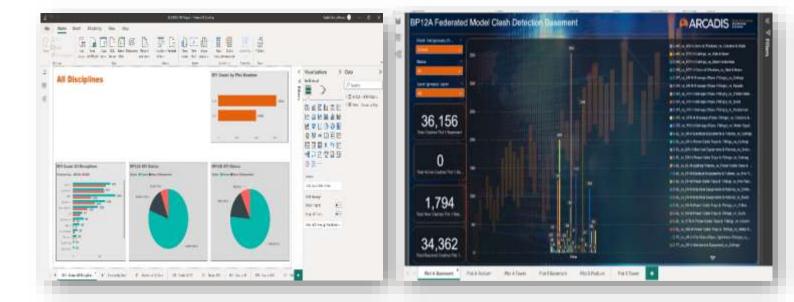






LUSAIL: BIM PROGRESS REPORT PREPARED BY: RACHEL ROSAS & ARCADIS STATUS: FOR INFORMATION – BIM REPORTING WITH POWER BI INTEGRATION



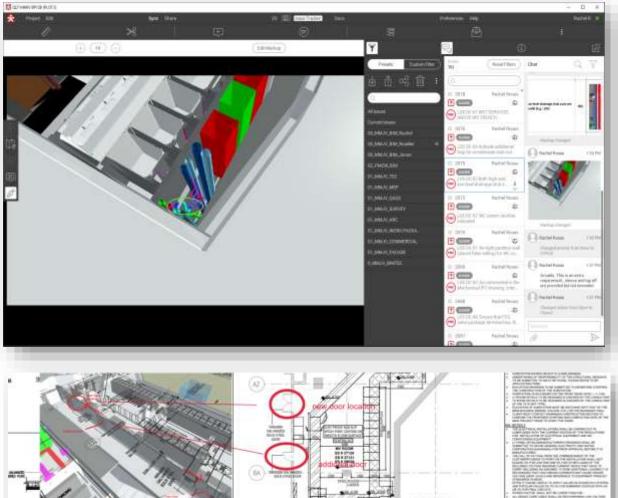


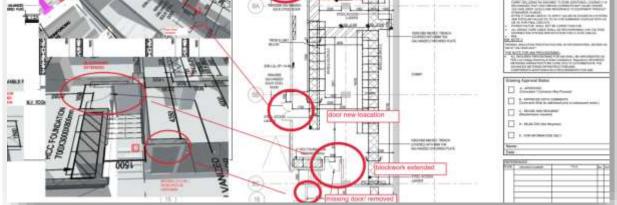


LUSAIL PROJECT: BIMCCORDINATION REPORT PREPARED BY: RACHEL ROSAS

STATUS: FOR INFORMATION – BIM REPORTING WITH REVIZTO INTEGRATION

- CLOSED ISSUES IN REVIZTO : OBSERVATION & COMMENTS
- SAMPLE 2D OVERLAY WITH LOD400, AND REVIEWING THE COMMENTS FROM KARAHMAA AUTHORITY



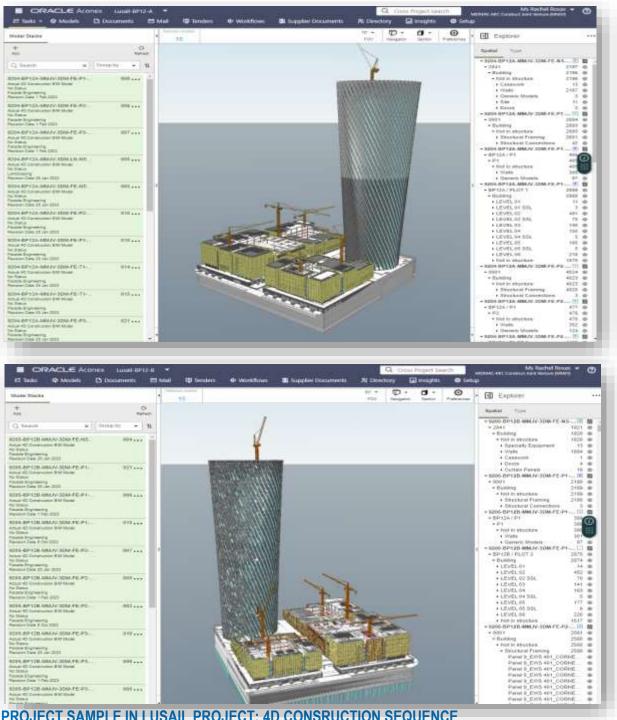


NAME: RACHEL ROSAS ALCANTARA



PROJECT SAMPLE IN LUSAIL PROJECT: SITE PROGRESS IN 3D PRESENTATION

PLOT 1 & 2: AS OF FEB 01, 2023 FOR CONSTRUCTION WEEK NO. 150 UPLOADED IN ACONEX BIM MODEL INTEGRATION IN ACONEX FOR EMPLOYER AND MANAGEMENT REVIEW



PROJECT SAMPLE IN LUSAIL PROJECT: 4D CONSRUCTION SEQUENCE



BASELINE PROGRAM APPROVED DOCUMENTS FOR REFERENCE SLAB LIFE CYCLE BASELINE VS ACTUAL



BASELINE PROGRAM

NAME: RACHEL ROSAS ALCANTARA



- APPROVED DOCUMENTS FOR REFERENCE
- SLAB LIFE CYCLE
- BASELINE VS ACTUAL





GLOBAL BESIX CERTIFICATION IN BSI

- VERIFICATION CERTIFICATE IN BIM ISO STANDARD 19650-2-2018 (2017-2023)
- ORGANIZER: BESIX HO IN BRUSSEL SINCE 2021





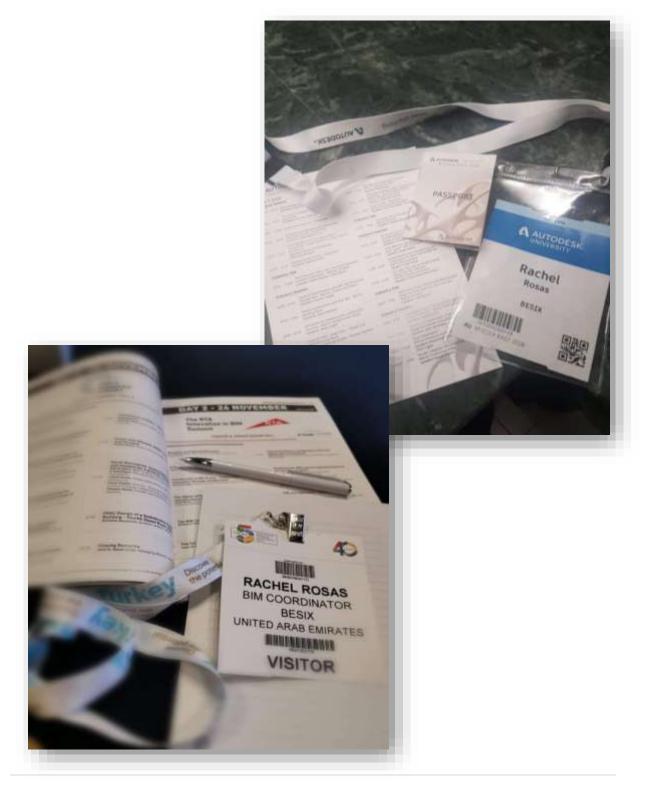
(SUPPORTING DOCUMENTS)

ORGANIZER: BESIX HO IN BRUSSEL SINCE 2021 DECEMBER PRESENTOR: RACHEL ROSAS

Recordings can be found on this link : 04. Technical So							
Some rules when you are presenting a topic : Brief introduction : what's the purpose of the tool, procedure etc. Keep it technical, but not too technical (Audience = BIM Modelers, Steel, Façade, Methods, Planning) Max. 30 minutes of presentation. 15 minutes of questions afterward.							
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Agenda							
10/02/2023: BIM Coordination with Aconex IMS by Hoang	Pham (SMV)						
03/02/2023: KLIP to BIM Tool by Mathieu Ophoff (R4)							
27/01/2023: Bexel Manager by Veljko Janijc							
13/01/2023 – KBM – BIM @ Dubai Waste to Energy							
09/12/2022 – Rachel L.Rosas (Dubai) – Laser Scanning @ L 02/12/2022 - Cancelled	usai tower						
uz/12/2022 - Cancelled 25/11/2022 – Michele Ambrosino (ULB) – Brikiebots							
18/11/2022 - Cancelled	06/05/2022 - BED Event - No Soapbox						
11/11/2022 – No Soapbox – Fall break	29/04/2022 – KG-Dev – BIM & Dashboarding (KG-dev.be) 22/04/2022 – KRO - Speckle						
04/11/2022 - No Soapbox - Fall Break	22/04/2022 – NRO - Speckie 15/04/2022 – BESIX BE Holiday – No Soapbox						
28/10/2022 – LLE – Genus & Power Bl	08/04/2022 - QSW - Kabandy						
21/10/2022 - RCO - ISO19650 (15h Bxl Time)	01/04/2022 - No Soapbox						
14/10/2022 – ALU - Analytical modelling in Revit	25/03/2022 – LLE - Globalmapper						
07/10/2022 – KDS – BIM Server	18/03/2022 – YDI – Diroots Revit Plugin 11/03/2022 – KDS - iConstruct						
30/09/2022 – KHE – GIS@ROCO	04/03/2022 – MJA – Main Principles of ISO19650						
23/09/2022 – TST (Qonic) – QONIC: Accurate BIM	25/02/2022 -						
	18/02/2022 – (Cancelled)SVDW – BIM @ COTU Oosterweel Zinktunnel 11/02/2022 –						
09/09/2022 – FPI – BIM Interoperability Tools for Revit	04/02/2022 - OPE - Revit Shared Coordinates						
02/09/2022 – MMU - BIM Integration with Tekla (to be co	28/01/2022 -						
26/08/2022 – MRO – Solibri Ruleset manager by MRO 19/08/2022 – ScaledRobotics by Stuart Maags	Winter Break 10/12/2021 – PDC – LTF Volume Model & link to Model-statusses						
Summer Break	03/12/2021 - Vincent Charlier - IDCapture on Clinic de Neuilly (FR)						
24/06/2022 – TBD	29/10-12/11/2021 Automn Break						
17/06/2022 – LSA – Internship report (automatization of th	22/10/2021 – ADR – Lessons Learned on Mozambique LNG						
10/06/2022 – ADR – Task Automation @ RIGA-project	15/10/2021 – LLE – Neanex Portal on COTU 08/10/2021 – VDI/KDS – Autodesk Infraworks (Design vs Methods&Planning)						
03/06/2022 - HHU - Folder Structure on BIM360/ACC	01/10/2021 – LRY – Revizto-usage @ WatPac						
20/05/2022 – LLE – BIM360 + PowerBI	17/09/2021 – KDS – Navisworks iConstruct						
13/05/2022 – YDI – ConVoid Plugin for Revit (Coordination							
06/05/2022 – BED Event – No Soapbox	06/08/2021 – JMA – Plannerly Summer-break						
	24/06/2021 - NHO - Dynamo & LBS-codes on LTF						
	21/05/2021 – LLE – Data Management with Python						
	07/05/2021 – HHU – Open Data Vlaanderen – Use of LIDAR-information 30/04/2021 - FLE - BESIX Classification						
	09/04/2021 - CWI - Reporting (BIMCollab/Planning) on LTF						
	02/04/2021 – (EDR – Dynamo-scripts for LTF - Cancelled)						
	26/03/2021 – LLE – R4 Project Overview						
	19/03/2021 – KVA – BIMCollab Zoom (Pro) 12/03/2021 – KVA – Revit IFC Export						
	12/03/2021 – KVA – Revit IPC export 19/02/2021 – ASBR – The wonders of SimpleBIM						
	12/02/2021 – KVA – RTV Exporter Pro, Revit Plugin for Automating exports of IFC/NWC/PDF/DWG_						
	05/02/2021 – LSW – StabiCAD Openings Manager						



MIDDLE EAST: EVENTS ATTENDED EVENT 1: AUTODESK UNIVERSITY 2018 EVENT 2: BIG 5 2019





MIDDLE EAST: BESIX REVIT & BIM REQUIREMENTS TRAINING PRESENTOR 2019: RACHEL ROSAS ATTENDEES: PROJECTS SITE TEAM AND HEAD OFFICE



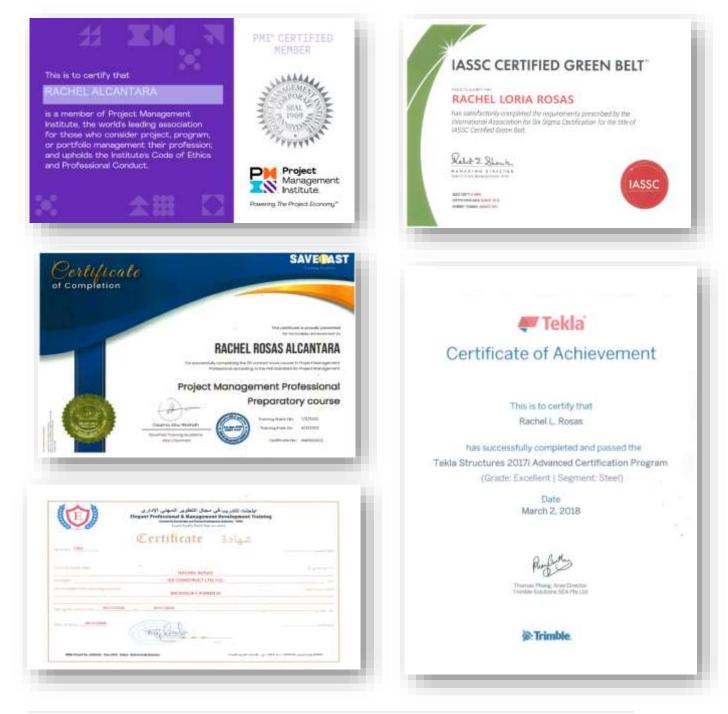
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3	53354	RAP	MATEV	ZORAN	PROJECT ENGINEER	1
1	9517	DUT	SANKARA NARAYANAN	HARI KUMAR	SURVEYOR - SENIOR	
5	42172	MSR	ALSHANTI	JALAL AMEER AHMAD	PLANNING ENGINEER	
1	30447	DED	PAULOSE	ROY	DRAUGHTSMAN - FORMWORK DESIGNER - SENIOR	Beerlaube
	38188	MSR	NANGGAN	DEMETRIO	QUANTITY SURVEYOR	5

SIX CONSTRUCT | TRAINING ATTENDANCE RECORD SHEET | P



EXPERTISE QUALIFICATION

- CERTIFIED IASSC LEAN SIX SIGMA GREEN BELT
- MEMBER OF PROJECT MANAGEMENT INSTITUTE
- CERTIFICATE OF COMPLETION PROJECT MANAGEMENT PREPARATORY COURSE
- CERTIFICATE OF COMPLETION IN POWER BI
 - CERTIFICATE OFACHIVEMENT IN TREMBLE: PASSED TEKLA ADVANCE PROGRAM



≫✓ENTURES

PATH TO BIM CHAMPION AWARD (SUPPORTING DOCUMENTS)





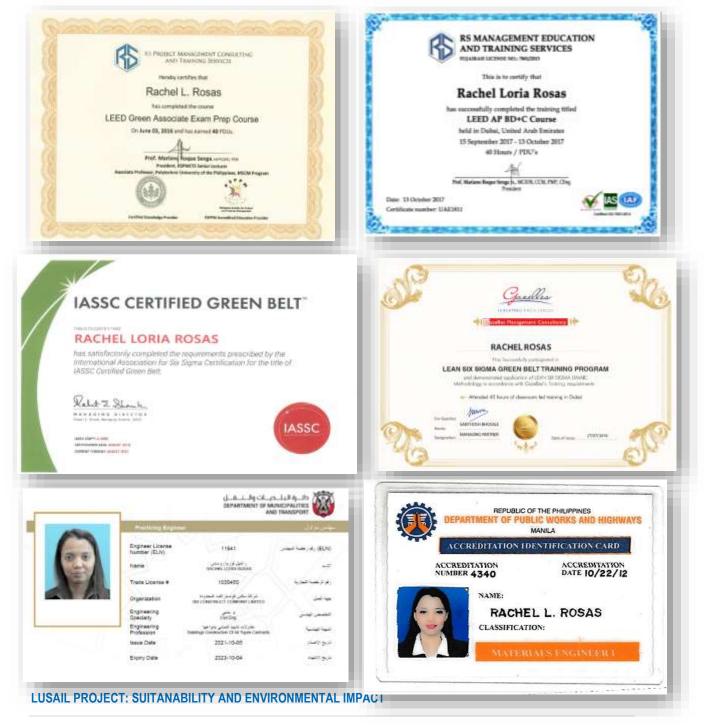
SUPPORTING DOCUMENT'S PART 7 ENVIRONMENTAL, SOCIAL AND GOVERNANCE IMPACT

EXPERTISE QUALIFICATION

NAME: RACHEL ROSAS ALCANTARA



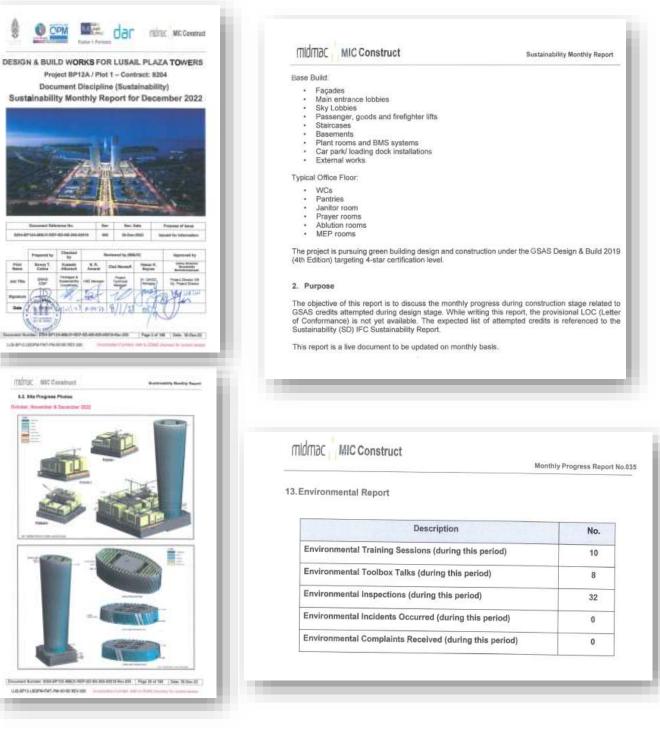
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- CERTIFICATE OF COMPLETION IN LEED AP BD+C COURSE
- MATERIAL ENGINEER LEVEL 1 : ACCREDIATION IN DEPARTMENT OF PUBLIC WORKS IN HIGHWAYS
- LICENSE PRACTICING ENGINEER IN DEPARTMENT OF MUNICIPALITIES AND TRANSPORT IN ABU DHABI





(SUPPORTING DOCUMENTS)

- SAMPLE SUSTAINABILITY MONTHLY REPORT
- PURPOSE OF SUSTAINABILTY
- NO. OF INSIDENT REPORT
- **PROGRESS REPORT IN 3D PRESENATIONS**



LUSAIL PROJECT: SUITANABILITY AND ENVIRONMENTAL IMPACT

NAME: RACHEL ROSAS ALCANTARA

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PATH TO BIM CHAMPION AWARD (SUPPORTING DOCUMENTS)

- SAMPLE LANDSCAPING MATERIAL APPROVAL
- SAMPLE FIXTURES MATERIAL APPROVAL
- HIGH LEVEL AUTHORITY STATUS

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SUPPORTING DOCUMENT'S PART 8 BENEFITS AND REALIZATION

NAME: RACHEL ROSAS ALCANTARA

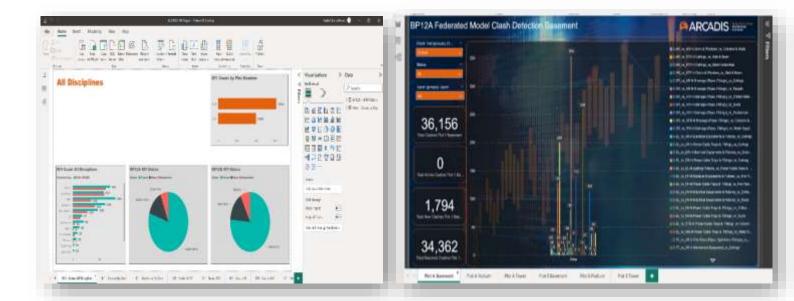


(SUPPORTING DOCUMENTS)

PREPARED BY: RACHEL ROSAS & ARCADIS STATUS: FOR INFORMATION – BIM REPORTING WITH POWER BI INTEGRATION





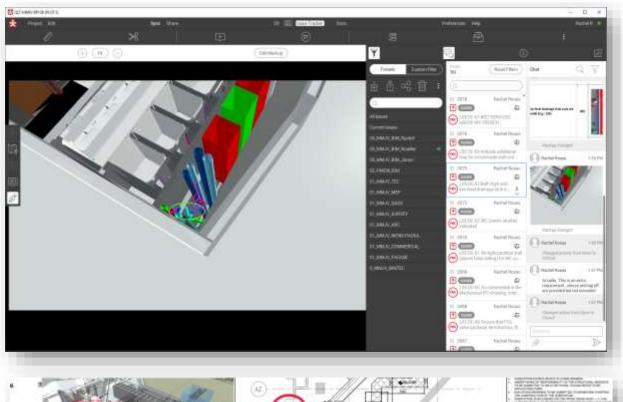


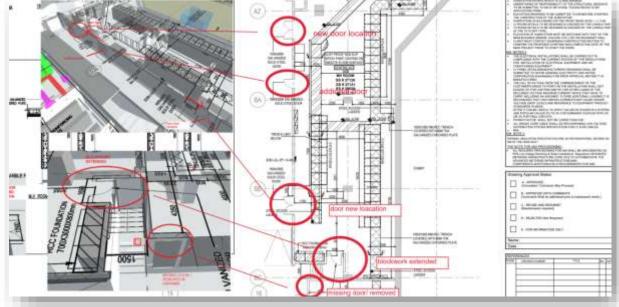


(SUPPORTING DOCUMENTS)

LUSAIL PROJECT: BIMCCORDINATION REPORT PREPARED BY: RACHEL ROSAS STATUS: FOR INFORMATION – BIM REPORTING WITH REVIZTO INTEGRATION

- CLOSED ISSUES IN REVIZTO : OBSERVATION & COMMENTS
- 2D OVERLAY WITH LOD400, AND REVIEWING THE COMMENTS FROM KARAHMAA AUTHORITY





NAME: RACHEL ROSAS ALCANTARA

DATE: <u>FEB 06, 2024</u>



(SUPPORTING DOCUMENTS)

MIDDLE EAST: BIM TRAINING 2020 (LUSAIL TOWERS) PRESENTOR: RACHEL ROSAS ATTENDEES: PROJECT STAFF, (MAIN CONTRACTOR, PMC & SUBCONTRACTOR

• Revizto • And much more • Naviswork Freedom • And much more • BIM360 • JD scanning • Design colleboration • And much more • Design colleboration • And much more • Model Coardination • # # # #	HOW IT WORKS
The training will be given to all teams : PMCM , MMJV Staff, Subcontractors and Suppliers. It schedule to run every second and forth. Monday of the Month . Subjects and topics are in batches and invitation will be sent out through email.	construction site - For details and requesting for training please contact the BIM ambassadors below.
CERTIFICATE OF PAR This certificate of training achievement is BIM Manager	
who attended the training cours BIM360 Document Management on 28th Septemb Rachel Loria Rosas BIM Manager / Trainer	

MASTER THESIS: ABSTRACT



(SUPPORTING DOCUMENTS)

PREPARED BY: RACHEL ROSAS TITLE: APPLICATION OF BIM AND LEAN INTEGRATION IN CONSTRUCTION PROJECTS (2019)

ABSTRACT

Title: Researcher : Degree : Institution : Year : Adviser : Application of BIM and Lean Integration in Construction Projects Rachel Loria Rosas Master of Science in Construction Management Polytechnic University of the Philippines 2019 Dr. Lincoln A. Bautista

BIM and Lean Integration has been said to have contributions on the

improvement of construction process. I determine the level of agreement on the a construction projects in UAE.

The researchers considered the v attainment, length of work experience, r company sector he/she belonged along r such as pre-construction, construction ar factors in the assessment of level of a application of BIM and Lean integration in

The study used the descriptive n adapted questionnaire checklist. The said in which part 1 dealt with the responde considered determining factors wherein t statements in the scale of 1 to 5 dependir of BIM and Lean integration in stages of c The study revealed that based on the responses of the two groups of respondents, pre-construction, construction, and post construction obtained an overall weighted mean of 4.41, 4.34 and 4.34 respectively and verbally interpreted as "Moderately Agree". The data implied that the respondents "Moderately Agree" on the application of BIM and Lean integration in stages of construction projects.

The study also showed that there is no significant difference on the perception of the two groups of respondents with respect to pre-construction, construction, and post construction revealed by the respondents' profile in terms of sex, age, educational aftainment, length of work experience, role in construction project and current company sector. This implied that regardless of their classification, they all perceived that BIM and Lean Integration indeed contributes in the improvement of construction process in stages of construction projects.

Based on the findings of the study, the conclusions and recommendations were drawn.

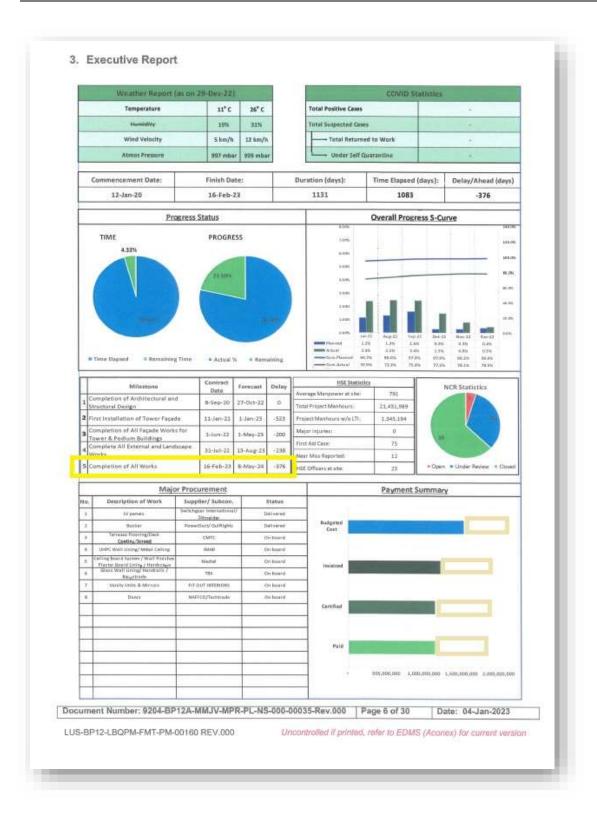
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Keywords: BIM, Lean, Construction, Innovation, Technology

LUSAIL PROJECT: HIGHER MANAGEMENT REPORT FOR PROJECT PROGRESS STATUS: FOR INFORMATION

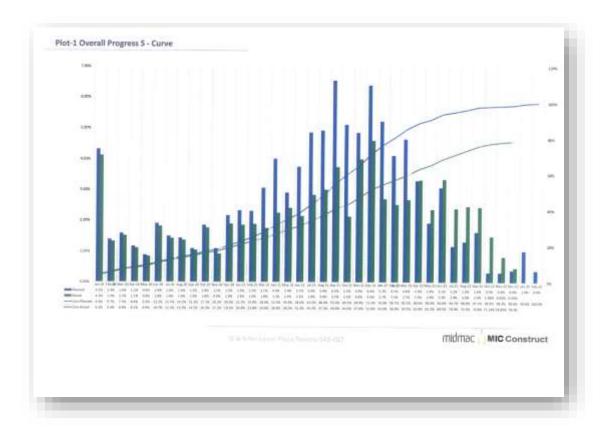


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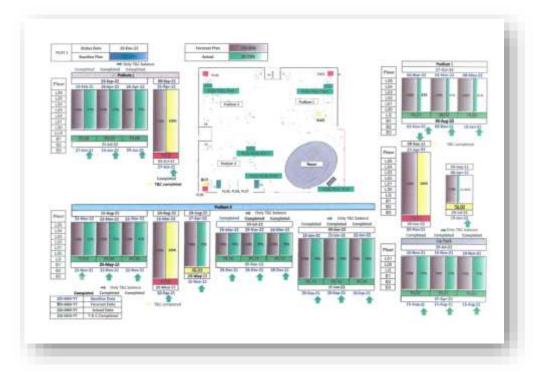


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PATH TO BIM CHAMPION AWARD

(SUPPORTING DOCUMENTS)



15. Areas of Concern

General

The following listed items have the potential to impact upon Scheduled Completion Date, Any milestone there to and Contract price.

- Coronavirus (COVID-19) Pandemic subject of notifications and particulars of effects which are
 progressively submitted to LREDC ongoing and therefore time and cost impact not determinable
 at this stage.
- Performance deductions imposed by LRDEC despite prevailing market conditions and changes known to the parties.

Procurement

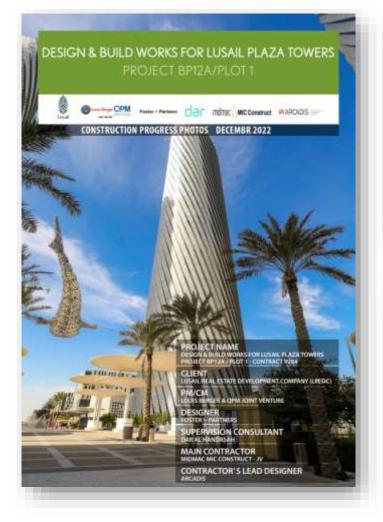
 Material price increase due to exceptional conditions including global pandemic and associated restrictions.

PROJECT SAMPLE IN LUSAIL PROJECT:

ACTUAL PROGRESS ON SITE AS OF DEC 2022 DURING FIFA WORLD CUP 2022



- 600 PHOTOS, 2NOS VIDEOS, 4NOS TIMELAPSE
- OVERALL PROGRESS







NAME: RACHEL ROSAS ALCANTARA



SUPPORTING DOCUMENT'S PART CONTINUING PROFESSIONAL DEVELOPMENT (CPD)

NAME: RACHEL ROSAS ALCANTARA

≫✓ENTURES CONNECT

PATH TO BIM CHAMPION AWARD (SUPPORTING DOCUMENTS)



≫✓ENTURES

PATH TO BIM CHAMPION AWARD (SUPPORTING DOCUMENTS)





🐖 Tekla

★ VENTURES CONNECT

PATH TO BIM CHAMPION AWARD

(SUPPORTING DOCUMENTS)







"Champions are made by their passion and persistence."