

Dr. Zakria Osman

PROFESSIONAL PROFILE

EUR ING FEANI, PhD, MSc, CEng MIET, CEng FCIBSE, CEng MIEAust, IntPE(Aus.), NER, RPEng BPEQ, APEC Engineer, PMP® LEED AP B+C, Smart cities, sustainability, Carbon Emission & Digital Construction



is a highly accomplished mechanical engineer with profound expertise in cutting-edge research and development. Zakaria holds a Ph.D., MSc. and over 25 years of experience, he brings an unparalleled depth of knowledge and a passion for expanding the boundaries of engineering. Throughout his academic and professional career, Zakaria made significant contributions in the field of mechanical engineering. He conducted extensive research in specialized areas such as Digital Construction, Smart Cities, Digital Engineering, Pre-fabrication/Modular Construction, exploring novel concepts and methodologies to address complex engineering challenges.

Zakaria's research acumen is complemented with his strong technical skills and proficiency in advanced analytical tools. He is adapting in utilizing state-of-the-art simulation software and computational methods to model and analyze complex mechanical systems. His research findings have been presented in his work at prestigious conferences and symposiums.

Zakaria's ability to conceptualize and implement complex designs has been instrumental in the successful completion of numerous projects. He is highly proficient in using cutting-edge design and simulation software, enabling him to optimize designs for performance, reliability, and manufacturability.

As a passionate advocate for sustainable engineering practices, Zakaria is dedicated to developing environmentally conscious solutions that will improve our planet's sustainability. He actively collaborates with organizations focused on green technologies and actively seeks opportunities to incorporate sustainability principles into his projects.

With a unique blend of research expertise, technical proficiency, and visionary leadership, Zakaria is poised to continue making significant contributions to the fields of engineering and construction. His unwavering commitment to advancing knowledge and driving innovation positions him as a sought-after expert and a catalyst for positive change in the industry

MY BIOGRAPHY



EDUCATION

- ❖ PhD in Sustainable Energy Management (School of Business)
- ❖ Master of Science in Engineering (School of Engineering and Physical sciences)
Heriot Watt University –UK
- ❖ Master of Science in Environmental Management (School of sciences)
- ❖ Master of Science in Piping design and Engineering
- ❖ Post Graduate Engineering (piping design & Engineering) Maharashtra Institute of Technology, Pune (School of Engineering)
- ❖ Engineering degree Mechanical Engineering.



PROFESSIONAL MEMBERSHIP:

- ❖ Certified European Engineer designation (EUR ING) awarded by the European Federation of National Page 1 of 3 Engineering Associations(*FEANI*)
- ❖ Chartered Engineer CEng IET, **Engineering Council UK** Reg. No. 690480
- ❖ Chartered Engineer CEng Chartered Institution of Building Services Engineers (CIBSE) **Engineering Council UK**.
- ❖ Member of society of Digital Engineering-UK FSDE
- ❖ Chartered Professional Engineer CPEng within Mechanical Engineering, Building Services, and Project Management (CPEng) (**Engineers Australia**).
- ❖ International Professional Engineer IntPE (Aus.) International Engineering Association (IEA) within Mechanical Engineering, Building Services IntPE (Aus.).



PROFESSIONAL MEMBERSHIP:

- ❖ Asia Pacific Economic Cooperation (**APEC**) Engineer within Mechanical Engineering, Building Services (**APEC Engineer**).
- ❖ Registered Professional Engineers of Queensland Australia **RPEng**
- ❖ The Board of Professional Engineers of Queensland Australia **BPEQ**
- ❖ A credential LEED AP Building Design + Construction (**LEED AP BD+C**)
(**U.S. Green Building Council**)
- ❖ Project Management Professional Certified (**PMP®**) (**Project Management Institute USA**)
- ❖ Project Management Institute (PMI) Membership No 2808620
- ❖ The Institution of Engineering Technology (MIET) Membership No 1100297883
- ❖ Fellow of Chartered Institution of Building Services Engineers (FIBSE) Reg. No. 063559
- ❖ Engineers Australia Membership Professional Category (MIEAust) EA ID: 8389460
- ❖ **Certified professional chief Engineer** from Gov. of Kazakhstan for **Engineering work** (certification No 0021)
- ❖ **Certified professional chief Engineer** Gov. of Kazakhstan for **Project work** (certification No 0022)



PROFESSIONAL SERVICES, PAPERS PUBLISHED:

1- BIOGAS / PV HYBRID STANDALONE SYSTEM FOR LABOUR CAMP ELECTRIFICATION

Description: Hybrid, Solar PV, Biogas, Labour camp, UAE, power supply, rural

Link:<https://1drv.ms/b/s!AnRbVy4z7r1fjrZodp6zv7d2xryFg?e=QWbWgm>

2- An analytical study of environmental issues in the sustainable renewable energy development in the UAE

Date: 17 Apr 2017

Description: 4D INTERNATIONAL RESEARCH JOURNAL(IMPACT FACTOR:-3.256)

Link:http://4dinternationaljournal.com/wp-content/uploads/2018/08/Thesis-December-2017-Fin.Copy_.pdf

Notes:

An analytical study of environmental issues in the sustainable renewable energy development in the UAE

3- Built-today-using-tomorrow-technology-Smart-MEP

Date: 17 Apr 2019

Description: Autodesk University

Link:<https://www.autodesk.com/autodesk-university/class/Built-today-using-tomorrow-technology-Smart-MEP-C>

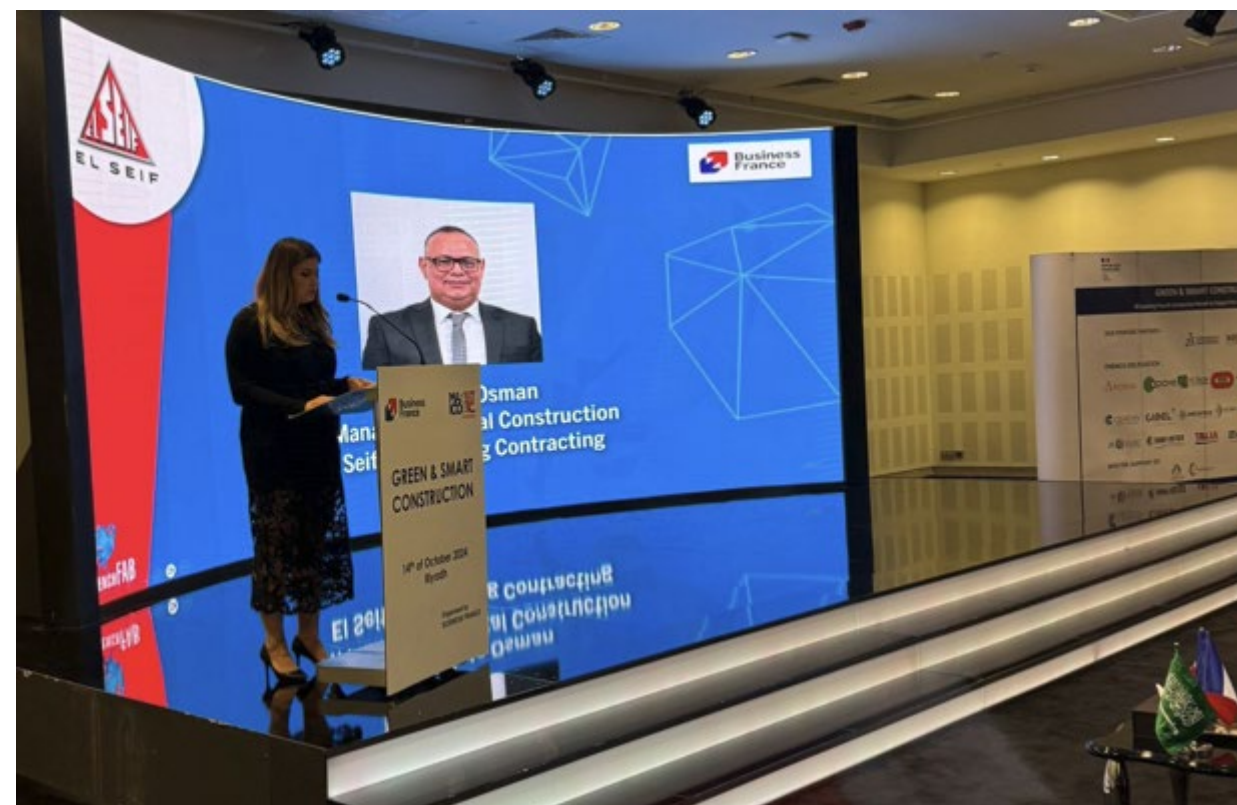


VOLUNTEERING

- 1- Continuing professional development (CPD) Sub-Panel Assessor
Chartered Institution of Building Services Engineers – UK (CIBSE)
- 2- End Point Assessment (EPA)Chartered Institution of Building Services
Engineers – UK (CIBSE)
- 3- Mentor Chartered Institution of Building Services Engineers – UK (CIBSE)
- 4- One of the Founder of Board of the professional Engineers of Kazakhstan
(BOPE)



SPEAKER /PANEL DISCUSSION INTENTIONAL EVENTS (SAMPLES ONLY)



SPEAKER /PANEL DISCUSSION INTENTIONAL EVENTS (SAMPLES ONLY)



SPEAKER /PANEL DISCUSSION INTENTIONAL EVENTS (SAMPLES ONLY)



SPEAKER /PANEL DISCUSSION INTENTIONAL EVENTS (SAMPLES ONLY)



CONSTRUCTION TECHNOLOGY
CONFEX & AWARDS
FUTURE CITIES - INFRASTRUCTURE - BUILDINGS

SCA
الهيئة السعودية للمقاولين
Saudi Contractors Authority

SPEAKER

ZAKARIA OSMAN

EL SEIF CONTRACTING ENGINEERING

QR Code 1

QR Code 2

Scan For Vcard



SMART SKYSCRAPERS SUMMIT KSA

Showcasing Innovative High-Rise Development Projects that will transform the KSA's Skyline by 2030

Zakria Osman

Sr. Manager - Digital Construction

El Seif Engineering Contracting

SPEAKER

10 - 11 JUNE, 2024 | JW MARRIOTT HOTEL RIYADH | SAUDI ARABIA



BIG Global

LiveableCitiesX

26 - 29 November 2024, Dubai World Trade Centre

Zakria Osman

Senior Manager - Digital Construction

El Seif Engineering Contracting

QR Code

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SPEAKER

Specialized events:

HEAVY Totally Concrete HUA R WORLD MARBLE & STONE Urban Design & Landscape CDS WORLD FutureFM

SPEAKER / PANEL DISCUSSION INTENTIONAL EVENTS (SAMPLES ONLY)



DR. ZAKRI A OSMAN

VOLUNTEERING



**SMART
SKYSCRAPERS
SUMMIT KSA**

10 - 11 JUNE, 2024 | SAUDI ARABIA

Organized by:





Zakria Osman
Sr. Manager - Digital Construction
El Seif Engineering Contracting

Showcasing
**Innovative High-Rise
Development Projects**
that will transform the KSA's Skyline
by 2030



CONSTRUCTION TECHNOLOGY FESTIVAL KSA

Movenpick Hotel & Residences Riyadh, KSA 14-15 Dec 2022

 H.E. Majid bin Abdullah bin Hamad Al-Hoqail Minister وزارة الشؤون البلدية والقروية Ministry of Municipalities and Urban Planning	 Eng. Thabet M. Al-Sawyeed Governor SCA الهيئة السعودية للمقاولين Saudi Contractors Authority	 Zakria Osman Corporate Digital Engineering Manager EL SEIF	 Eng. Majed Tamer Aljendy Chief Control Officer الجماعة التجارية للمقاولين SAUDI BINLADIN GROUP
 Shawki Gholmie Vice President Nesma & Partners	 Ben Hudson Chief Strategy Officer ROSHN	 Andrew Rippon Smart City Director الهيئة الملكية لمحافظة العلا Royal Commission for AlBaha	 Chris Smeaton Associate Principal - Digital Leader KEO
 Manal Sayed Senior Director - Digital Services KACST	 Badr Burshaid President PMI KSA, Director aramco السعودية saudi aramco	 Bandar Alkhalan Director, National Center for Building and ConTech مدينة الملك عبدالعزيز للعلوم والتقنية KACST	 David Glennon Senior Digital Delivery Director The Red Sea Development Company

AGENDA AT GLANCE

DAY 1	
08.00	REGISTRATION OPEN
09.00	THE KEYNOTES
11.00	MORNING NETWORKING BREAK
TRACK 1	TRACK 2
11.30	Data Sovereignty
12.10	Regulation & Policy
12.50	Digital Transformation
14.00	NETWORKING LUNCH
TRACK 3	TRACK 4
15.00	BIM
15.40	Virtual Construction
16.20	Digital Twins
17.00	AFTERNOON NETWORKING BREAK
17.30	Close of Day 1

60+ SPEAKERS 30+ EXHIBITORS 500+ ATTENDEES

DAY 2	
08.00	MORNING NETWORKING
09.00	WORKSHOP 1
11.00	BREAK & REFRESHMENTS
11.30	WORKSHOP 2
13.30	NETWORKING LUNCH
14.30	WORKSHOP 3
16.30	BREAK & REFRESHMENTS
17.00	CLOSE OF CTF KSA

Co-located with Contracting Excellence Awards by Saudi Contractors Authority

For more information on how to enter see: SCA CE Awards (ce-awards.sa)



El Seif Engineering Contracting

251,940 followers
12m •

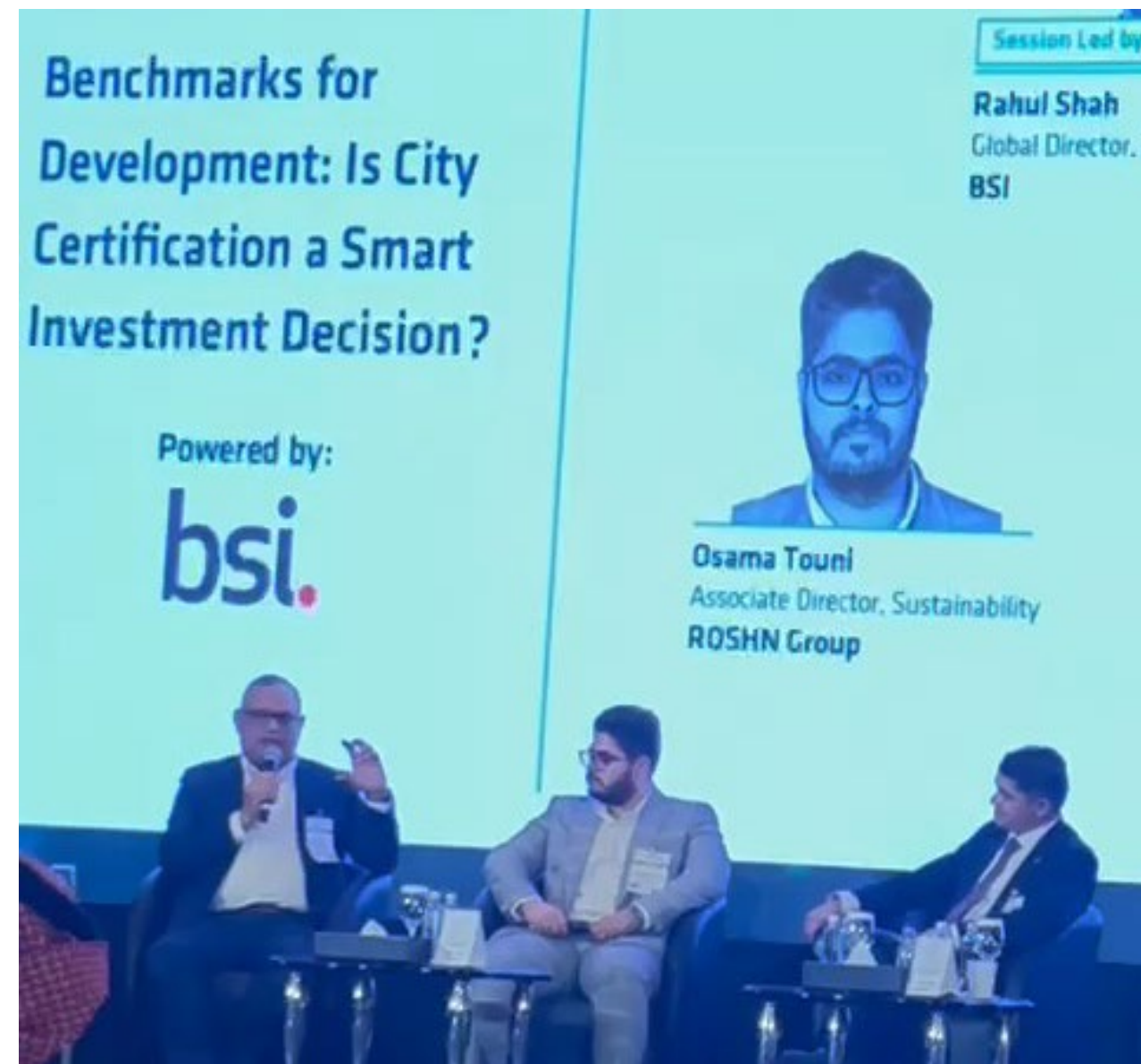
Smart Skyscraper Summit KSA 2024 begins today in Riyadh.

Please join us for the Executive Panel Session: Advancements in High-Rise Technologies.
El Seif Engineering Contracting represented on the panel.
Mr. Zakria Osman, Sr. Manager, Digital Construction.

Explore the latest innovations, including smart building systems, materials, and construction techniques that are Shaping the future of the mega-tall built environment, Latest smart solutions that improve building performance and sustainability, exploring innovation in BIM and Digital Twins in high-rise design and construction and more.

#SmartSkyscrapersSummitKSA
#SmartskyscrapersKSA
#ESEC

SPEAKER /PANEL DISCUSSION INTENTIONAL EVENTS (SAMPLES ONLY)



Forecasting the future with predictive analytics

Zakria Osman
Sr Manager-Digital Construction
El Seif Engineering Contracting

Register now for free entry



BIG 5

TALKS

Theme:
Technology
Talks

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BIG 5 Global

5 December 2023
Dubai World Trade Centre

SPEAKER /PANEL DISCUSSION INTENTIONAL EVENTS (SAMPLES ONLY)



https://www.linkedin.com/posts/eur-ing-zakria-osman-27b86117_constructiontechnologyconfexksa-contech-citytech-activity-7252290907255828480-Vm4B?utm_source=share&utm_medium=member_desktop



https://www.linkedin.com/posts/eur-ing-zakria-osman-27b86117_stadiuminnovation-sportstech-smartstadium-activity-7163825606227423232-xCP5?utm_source=share&utm_medium=member_desktop

SPEAKER /PANEL DISCUSSION INTENTIONAL EVENTS (SAMPLES ONLY)

bsi. | BIG Global

Panel discussion:
Forecasting the future with predictive analytics

Day 2, 13:40-14:20, 5th December 2023,
Technology Talks – Sheikh Saeed Hall 1

Register Now

Meet the panel

Moderator: Rahul Shah, Global Director - Built Environment, BSI

Speaker: Dr. Maged Elhawary, Managing Director, Analytica

Speaker: Mr. Amr Saad, Head of BIM, ROSHN Group

Speaker: Mr. Zakira Osman, Senior Manager - Digital Construction, El Seif Engineering Contracting

Speaker: Mr. Darren McBride, Senior Director (Construction Management) - Middle East, Jacobs

SPEAKER /PANEL DISCUSSION INTENTIONAL EVENTS (SAMPLES ONLY)

CERTIFICATE OF APPRECIATION

BIG 5
TALKS

26 - 29 November 2024
Dubai World Trade Centre

This certificate is proudly presented to

Zakria Osman

In recognition of their valuable contribution as a speaker at **Big 5 Talks**.

Josine Heijmans

Josine Heijmans
Senior Vice President - Construction

Powered by

BIG 5 Global

Organized by

dmg::events

AUTODESK UNIVERSITY

MIDDLE EAST 2019

Certificate of Appreciation

is hereby granted to:

Omran Zakria

In grateful recognition of your service as a Speaker at
Autodesk University Middle East 2019
in Dubai on 16-17 December, 2019.

Granted by:

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MIDDLE EAST

AUTODESK. Make anything.

Participation writing Code and standard

Embodied carbon in building services:
a calculation methodology for the United Arab Emirates



G.1 Local working group industry representatives

The assumptions to be used when following the CIBSE TM65 methodology in the United Arab Emirates were decided by a technical working group led by CIBSE UAE and the authors.

Dr Francisco Sierra (UWE)
Balsam Nehme (DAR)
Ahmed Hagra (UWE)
Isaac Coker (WSP)
Dr Anastasia Mylona (CIBSE)
Dr Hassan Ali (De Montfort University UAE)
Farah Naz (AECOM)
Carlos Amaya (Head at Department of Energy Abu Dhabi)
Akshay Datar (Ras Al Khaimah Municipality)
Nic Byczynski (AESG)
Yasser Ali Khan (WSP)
Deidre Wolff (AESG)
Zakria Osman (El Seif Engineering Contracting)
Christopher Laborde (LAB Data Solutions)
Jeff Fox (Phillips Page Associates Ltd)
Hassan Younes (GRFN)
Furqan Mian (ENGIE Solutions Middle East)
Natasha Das and Johanna Jarvinen (Bionova Ltd./One Click LCA)
Hassan Younes (GRFN)

Working group sessions were prepared and chaired by Dr Francisco Sierra (UWE).

https://www.linkedin.com/posts/activity-7272624483293663232-qgUY?utm_source=share&utm_medium=member_desktop

Company Awards (for my Department Digital Construction)

We are proud to announce that our company has won two prestigious awards at the International Finance Awards 2024:

- 🏆 Best HSE Practices - Construction
- 🏆 Fastest Growing Digitized EPC Company - Construction



This achievement reflects our unwavering commitment to implementing the highest standards of health, safety, and environmental practices, as well as adopting the latest digital innovations in the engineering, procurement, and construction sector.

We extend our gratitude to our exceptional team for making this success possible. We remain dedicated to achieving excellence and shaping a brighter future.

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#ESEC

Show translation



Leave your thoughts here...



Company Awards (for my Department Digital Construction)



KSA WINNER 2024



السيف مهندسون مقاولون
EL SEIF Engineering Contracting

**Editor's Choice - Sustainable
Contractor of the Year**
El Seif Engineering Contracting



https://www.linkedin.com/posts/rahul-shah-emba-cmgr-fcml-8183201a_constructiontechnologyconfexksa-ctfksa2024-activity-7255100908395446273-2eVe?utm_source=share&utm_medium=member_desktop

Company Awards (for my Department Digital Construction)



https://www.linkedin.com/posts/khodor-kurdi-78a03055_congratulations-to-the-elseif-team-for-winning-activity-7154151819932229633-eM7i?utm_source=share&utm_medium=member_desktop