

Dr. Eltahir Abu Elgasim Mohamed Elshaikh

Associate Professor in Construction Engineering and Management, Head of Engineering Department, Sustainable Building Expert, PMO Lead, BEng, MSc, PhD, VMA, PMP®, PMI-RMP®, Certified International Trainer, Certified Training Consultant, Certified QMS Lead Auditor ISO 9001,

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Professional Summary

Accomplished Associate Professor in Construction Engineering and Management with a strong academic and consulting background. Expertise in leading departments, managing 25 research projects, and publishing in top international journals. Certified in PMP, RMP, VMA, Strategic Planning, and as a Cost Professional. Registered specialist engineer with the Sudan Engineering Council, focused on sustainability and advanced building materials, construction management, and industry legal aspects.

Skills

- Project Management.
- Teaching and Mentoring
- Costing Control.
- Risk Management.
- Stakeholder Engagement.
- Contract Conciliation.
- Building Regulations Compliance.
- Proficient in AutoCAD, Primavera,
- Microsoft Project, SPSS, and CAD software's.

Teaching and Academic Administrative Experience:

Head of Engineering Department

National Construction Academy, Riyadh, Saudi Arabia

Jan 2025 – Present

- Providing academic and strategic leadership for the Engineering Department, which encompasses three nationally accredited diploma programs:
Civil Engineering and Construction (CEC), Occupational Health and Safety (OHS), Supply Chain Management (SCM).
- Leading curriculum design and continuous development to ensure alignment with Saudi labor market needs and international best practices.
- Supervising a multidisciplinary team of instructors, coordinators, and lab technicians, fostering a collaborative and performance-driven environment.
- Overseeing the establishment, upgrading, and operational readiness of technical laboratories and computer labs across all programs.
- Managing departmental budgets, procurement processes, and resource allocation to optimize training outcomes.
- Collaborating with industry stakeholders, governmental bodies, and regulatory agencies to maintain program relevance and compliance with national qualification frameworks.
- Initiating quality assurance measures, internal audits, and performance evaluations to enhance instructional delivery and trainee satisfaction.
- Supporting the implementation of digital learning tools and safety protocols across all training environments.
- Representing the department in institutional planning committees and contributing to the academy's strategic development initiatives.

Civil Engineering Instructor

National Construction Academy, Qassim, Saudi Arabia

Jun 2024- December 2024

- Developed and delivered comprehensive course content for undergraduate civil engineering students.
- Applied advanced teaching techniques including hands-on laboratory exercises and project-based learning; enhanced student engagement by 40% and boosted average test scores by 15% in 6 months.
- Achieved an average student satisfaction rating of 4.8 out of 5 for the past three semesters.

Instructor

AJI Company (Part-time for Riyadh Municipality), Saudi Arabia

Dec 2023 – Present

- Designed and delivered customized training programs on project management methodologies for 50 municipal employees, enhancing the project execution skills by 25%.
- Conducted real estate evaluation workshops for municipal assessors, resulting in improved accuracy and consistency in property assessments.
- Implemented cost control training initiatives that led to a 15% reduction in project overruns and enhanced financial management practices within the municipality.

Associate Professor

Construction Engineering Department, Sudan University of Science and Technology, Sudan

May 2023 – Present

- Designed and delivered advanced courses in construction management and engineering, including Construction Management, Engineering Economic Analysis, and Project Planning & Management, fostering both practical and analytical skills among students.
- Supervised and mentored over 10 postgraduate students and more than 25 undergraduate projects, ensuring high-quality research outputs and professional development.
- Led a pioneering research project on the Impact of Conflict on the Construction Industry in Sudan, resulting in multiple publications in international conferences and peer-reviewed journals, contributing to the advancement of best practices in project management.
- Actively contributed to curriculum development and departmental research strategy, promoting academic excellence and aligning education with industry needs and contemporary practices.
- Engaged in collaborative initiatives with industry and academic partners to strengthen joint research projects and translate practical experience into the academic environment

Dean of Engineering College

Sudan University of Science and Technology, Sudan

Apr 2021-Apr 2022

- Led the formulation and implementation of a forward-thinking strategic framework for the college; strengthened research initiatives by 45%, recognized 20 industry alliances, and increased global student enrollment by 18%.
- Initiated a faculty development program, resulting in a 30% increase in the number of faculty members with PhD degrees.
- Secured funding for the establishment of a state-of-the-art construction materials laboratory, enhancing the college's research and teaching capabilities.

Dean of Admission and Registration,

Sudan University of Science and Technology, Sudan

Oct 2019-Mar 2021

- Streamlined the admission and registration processes, leading to a 15% reduction in student processing time.
- Engineered a robust data management solution, enhancing the university's by monitoring and interprets student performance metrics; resulted in a 35% improvement in data accessibility and a 25% increase in actionable insights.
- Planned many student recruitment events, resulting in a 12% increase in undergraduate enrollment.

Head of Construction Department,

Sudan University of Science and Technology, Sudan

July 2014 -Aug 2019

- Provided academic leadership and strategic direction for the **Construction Engineering Department** within one of Sudan's leading technical universities.
- Oversaw undergraduate and postgraduate programs, including curriculum development, academic planning, and program accreditation.
- Managed faculty recruitment, performance evaluation, and professional development initiatives to maintain instructional excellence.
- Supervised research activities, graduation projects, and industry-linked capstone programs across multiple construction disciplines.
- Led departmental efforts in modernizing labs, integrating BIM (Building Information Modeling), construction management tools, and sustainability practices into the curriculum.
- Collaborated with governmental and private sector stakeholders to align academic programs with national infrastructure development goals.

Assistant Professor,

Construction Engineering Department, Sudan University of Science and Technology, Sudan

Apr 2018-May 2024

- Taught a wide range of construction management and engineering courses, including Construction Management, Engineering Economic Analysis, and Projects Planning & Management.
- Supervised and mentored over 15 postgraduate students and more than 40 under graduation Projects, leading to the successful completion of the research projects.
- Initiated and led a research project on the "Variation orders in construction Projects Sudan," resulting in two published conference papers.

Lecturer,

Construction Engineering Department, Sudan University of Science and Technology, Sudan,

July 2011 -March 2018

- Taught a wide range of construction management and engineering courses, including Construction Management, Engineering Economic Analysis, and Projects Planning & Management.
- Supervised and mentored over 50 undergraduate students, leading to the successful completion of the research projects.
- Initiated and led a research project on the "Application of Industrialized Building Systems (IBS) in Sudan," resulting in two published conference papers.

Assistant Professor

Civil Engineering Department, Elnasr University, Sudan,

Nov 2018 -May 2024

- Enhanced and implemented a new curriculum for the Civil Engineering program, incorporating industry-relevant content and practical applications.
- Established a student-led construction project management club, which planned site visits and guest speaker sessions to enhance students' practical knowledge.
- Accomplished a 20% increase in student enrollment in the Civil Engineering program during tenure.

Assistant Professor

Civil Engineering Department, University of Science and Technology, Sudan

Jul 2018- Feb 2023

- Conducted research on the "Assessment and Control the Effect of Variation Orders Construction Projects in Khartoum State – Sudan," leading to the publication of a journal article.
- Served as the faculty advisor for the student chapter of the American Society of Civil Engineers (ASCE), organizing many technical and social events.

Professional Experience:**Founder & General Manager**

Cosmos Professional Training Center, Sudan

Dec 2022- May 2024

- Established a specialized training center for construction professionals, leading to a 30% increase in certification rates and a 25% improvement in skill proficiency within the first year.
- Developed and executed comprehensive training programs in construction management, BIM, and sustainability, attracting over 300 participants in the first year.
- Achieved a 95% participant satisfaction rate and a 20% increase in revenue in the second year of operation.

Consultant Engineer

Real Estate Assets Valuation, Sudan

Mar 2015 – May 2024

- Led project management and strategic planning initiatives, completing 10+ high-impact projects under budget and ahead of schedule, enhancing overall project efficiency by 30%.
- Conducted over 20 feasibility studies and project planning exercises for large-scale construction projects in the transportation, housing, and commercial sectors.
- Performed cost management and risk analysis for many construction projects, resulting in an average cost savings of 12% for clients.
- Implemented real estate asset valuation services for over 50 properties, with an average client satisfaction rate of 4.7 out of 5.

Consultant Engineer

Provides Consultancy Services, Saudi Arabia

Dec 2023 – May 2024

- Led risk management studies for major projects, resulting in a 15% decrease in project risks and a 10% increase in project delivery efficiency.
- Developed project plans for infrastructure upgrades, achieving a 20% cost savings through effective resource allocation and procurement strategies.
- Directed a Project Management Office (PMO) framework that improved project oversight and alignment with organizational goals by 30%.

Head of the Real Estate Evaluation and Feasibility Studies Dep

Ruba Engineering Consultancy and Service

Jan 2016- Jan 2024.

- Collaborated with Marketing, Operations, Leasing, and Finance teams for 18 feasibility updates.
- Reviewed feasibility studies and communicated 12 project and investment opportunities to the CEO, Development Committee, and Executive Committee.
- Ensured regular updates of feasibility studies and financial models, communicating updated projections to Development & Delivery teams for 20 projects.
- Supervised the development of 15 pre-concepts, development briefs, and Asset Business Plans for greenfield project opportunities.

Real Estate Evaluator

Centre for Consultancy and Feasibility Studies-Sudan University of Science and Technology

July 2012-Dec 2015

- Conducted on-site visits to evaluate the physical condition, location, and amenities of 45 real estate properties.
- Analyzed local real estate market trends, property values, and 35 comparable sales to determine the property's market worth.
- Gathered relevant data on property features, market conditions, and legal considerations affecting property value for 28 properties.

Led a thorough valuation of the assets associated with a total of 20 different properties

Civil Engineer

Design Department, Sudanese Petroleum Company

July 2010 – July 2012

- Participated in the planning, design, and drafting of civil works related to oil and gas infrastructure projects.
- Prepared detailed structural drawings and specifications in compliance with industry standards.
- Coordinated with multidisciplinary teams including mechanical, electrical, and pipeline engineers.
- Conducted site assessments and provided technical support during construction phases.
- Ensured quality control and adherence to project schedules and safety protocols.

Education

- Doctor of Philosophy in Civil Engineering, Sudan University of Science and Technology, Sudan, Apr 2015 – Sep 2018
- Master of Science in Engineering Projects Management, Sudan University of Science and Technology, Sudan.
- Bachelor of Engineering in Civil Engineering (Highway and Transportation), Sudan University of Science and Technology, Khartoum, Sudan.

Memberships

- European Board of Training and leadership Development
- Sustainability Professionals of Saudi Arabia
- Saudi Council of Engineers.
- Sudanese Engineering Council (Specialist Engineer).
- Sudanese Engineering Society (Full Membership).
- Sudanese Association for the Evaluation of Assets and Real Estate.
- Building Alternatives and Social Development Society.
- Sudanese Sustainable Building Council.
- Exam committee and Results preparation, Civil Engineering, College of Engineering, SUST.
- Civil Engineering Council, College of Engineering, SUST.
- College of Engineering Council at SUST.
- SENATE Council at SUST.

Certifications

- Certified Trainer PTM.TOT – American Global Board -FEB 2026
- Certified Training Consultant – American Global Board -FEB 2026
- Certified International Trainer – European Board of Training and Leadership Development - Dec 2024
- Strategic Planning & KPI Practitioner - Global Performance Academy - Nov 2023
- General Introduction Safety and Health- OSHA Academy - Feb 2023
- Project Management Professional (PMP) Project- PMI, Jun 2020
- Value Methodology Association (VMA)- Save international- May 2021
- Assets valuation.

Achievements

- Published more than 25 papers in well- reputed international NL journals.
- Attended a total of 10 conferences besides 5 seminars throughout the year.

Language

- Arabic (Native), English (Fluent)