

# MANAR GHULOOM

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Civil Engineering Graduate | [Linkedin Profile](#)

## PERSONAL BIOGRAPHY

Civil Engineering graduate with experience in construction operations, AutoCAD drafting, geotechnical and structural analysis, and cost engineering. Skilled in GIS, BIM tools, data analysis, and project coordination, with knowledge of project management, scheduling, resource, and supply chain management. Involved in tender evaluation and cost estimation; currently gaining exposure to cost control and budget monitoring at the Ministry of Works. Interned at Saudi Aramco and FEDN Consulting Engineers, contributing to site supervision, structural review, and documentation. Passionate about applying innovative engineering solutions and contributing to impactful projects.

## EDUCATION

**Bachelor of Engineering (Hons) Civil Engineering (International) - First Class Honours** Sep 2021 - May 2025

British University of Bahrain partnership with the University of Salford, Manchester

- Award: Chairman's Award for Innovation in Civil Engineering (2025) - Awarded for graduation project "Integrating Machine Learning and GIS to Develop a 3D Digital Soil Map"
- Certificate of Appreciation (2025) - In recognition of outstanding achievements and dedication as a student
- Clubs: Charity Club (2022-2025) - Volunteered in community service and fundraising events

## WORK EXPERIENCE

**Cost Engineer Trainee - Sanitary Engineering Operations & Maintenance** Jul 2025 - Aug 2025  
**Ministry of Works: Cost Engineering Directorate** (2-month training program)  
**Manama, Kingdom of Bahrain**

- Assisted in tender evaluation, including both technical and financial assessments for sanitary engineering projects.
- Reviewed contractor proposals for compliance with project specifications, methodology, and qualifications.
- Participated in quantity take-offs and prepared cost estimates to support budgeting and project planning.

**Construction Engineer Intern - Road Maintenance** Aug 2023 - Oct 2023  
**Saudi Aramco: Roads Division, Mobility & Logistics Services Department**  
**Dhahran, Kingdom of Saudi Arabia**

- Collaborated with senior colleagues and contractors to track project progress and updates.
- Prepared detailed reports on scope, material costs, and job descriptions for road design projects.
- Conducted cost analysis for accurate quotes, considering workforce, materials, and expenses.
- Ensured compliance with safety regulations by closely monitoring construction operations.
- Maintained schedules, promptly communicating delays to contractors to keep projects on track.
- Developed animated road access simulations in PowerPoint for project presentations.

**Civil Engineer Trainee** Jul 2023 - Aug 2023  
**FEDN Consulting Engineers**  
**Dammam, Kingdom of Saudi Arabia**

- Proficiently used AutoCAD for precise architectural and structural designs.
- Analyzed diverse soil and geotechnical investigation reports thoroughly.
- Applied structural calculations effectively for reliable construction designs.
- Gained practical insights into real-world civil engineering practices.

## PROJECTS

**Integrating Machine Learning and GIS to Develop a 3D Digital Soil Map** October 2024 - April 2025  
**College of Engineering and Technology, British University of Bahrain**

- Preprocessed and validated spatial and geotechnical data in GIS to prepare for machine learning classification.
- Evaluated and optimised ML models to identify the most accurate algorithm for soil type prediction.
- Integrated predictions into GIS to create and visualise a complete 5D soil classification map of the project area.

**Construction Pre-Construction Plan for Offshore Oil Platform** September 2023 - April 2024  
**College of Engineering and Technology, British University of Bahrain**

- Contributed to offshore oil platform planning using Microsoft Project and CESMM3 for design and material estimation.
- Contributed to risk assessments, safety evaluations, and preparing tender packages.
- Supported on-site construction, including concrete works, steel framework, and safety implementation.
- Analysed a site visit, focusing on utilities, structural components, and safety compliance.

## TECHNICAL SKILLS

**CAD & BIM Software:** AutoCAD, Revit, Civil 3D, InfraWorks, BIM 360, SketchUp Pro

**Structural & Finite Element Analysis:** ANSYS, LinPro, MATLAB, SMATH

**Hydraulics & Water Resources:** EPANET, HEC-RAS

**GIS & Data Analysis:** ArcGIS Pro, WEKA

**Project Management & Productivity Tools:** Microsoft Project, Lucidchart, Word, PowerPoint, Excel

**Web Development:** HTML, CSS

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## SKILLS

**Soft Skills:** Problem-solving, Teamwork, Adaptability, Leadership, Time management, Communication

**Industry Skills:** Risk & Safety Management, Research Methodology, Sustainability & Environmental Research

**Languages:** Native in Arabic, fluent in English, and intermediate in French

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## PROFESSIONAL DEVELOPMENT

**Engineering Consulting - Virtual Experience Programme on Forage**

**Jul 2024 - Aug 2024**

**GHD Group**

**Melbourne, Australia**

- Completed a job simulation involving an options analysis for different rail alignment options for GHD's transport team.
- Used design brief documents and preliminary designs to estimate costs and construction timelines.
- Investigated and compared the impact of each alignment on stakeholders, the environment, and design outcomes.
- Conducted a weighted options analysis and communicated key findings in a technical memorandum.

**Civil Engineering Job Simulation on Forage**

**Jul 2024 - Aug 2024**

**John Holland**

**Melbourne, Australia**

- Completed a job simulation working across a range of construction tasks including a new bridge, high-rise, and rail.
  - Calculated the volumes of concrete for pile caps and abutments for a bridge and compared subcontractor rates.
  - Compared two building drawings to identify differences and arranged tasks in the correct sequencing order.
  - Reviewed placement of CCTV camera at an island stop to ensure safety requirements were met.
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## PROFESSIONAL MEMBERSHIP

**Institution of Civil Engineers (ICE)**

**2024 - Present**

Student Member

**Chartered Institute of Building (CIOB)**

**2024 - Present**

Student Member

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## CERTIFICATES AND ACHIEVEMENTS

- Heartsaver First Aid CPR AED – Issued by Johns Hopkins Aramco Healthcare / American Heart Association, July 2025
  - Generative AI Overview for Project Managers – Issued by Project Management Institute (PMI), May 2025
  - Building Sustainable Business Ventures – Issued by JA Worldwide, May 2025
  - Google AI – Issued by Google, November 2024
  - AI for Managers – Issued by Microsoft and LinkedIn, September 2024
  - Practical Engineering – Issued by LinkedIn Learning, September 2024
  - CSCMP Supply Chain Foundations: The Essentials – Issued by CSCMP and LinkedIn, September 2024
  - Certificate of Appreciation – Issued by Saudi Aramco, Mobility & Logistic Services Dept, October 2023
  - Information Security Essentials – Issued by SAP, September 2023
  - Community Work Principles and Fundamentals (Raed Basic) – Issued by Raed Program, September 2023
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## REFERENCE

Available on request