

# - O M A R M O H A M E D Y A S I E N -

**Infrastructure Mechanical BIM Engineer | Water & Wastewater | Renewable Energy Enthusiast**

Mansoura, Egypt • +201128330052 • omaryassen24@gmail.com • LinkedIn: [Omar Yasien](#)

Mechanical Engineer with hands-on experience in infrastructure projects, focusing on water and wastewater systems. Skilled in developing detailed BIM models, applying industry standards, and collaborating with multidisciplinary teams to achieve project goals. Knowledgeable in renewable energy resources. Dedicated to leveraging technical skills and teamwork to contribute to sustainable engineering solutions.

## PROFESSIONAL EXPERIENCE

**Engineering Consultants Group (ECG), Nasr City, Cairo • Infrastructure Mechanical BIM Engineer March 2024 – Present**

- ▣ Implementing advanced BIM techniques and coordinating with interdisciplinary teams, including civil, electrical, and architectural departments, to enhance project collaboration and ensure seamless integration of mechanical systems.
- ▣ Developing a 3D model for Neom piping system spanning 99 KM (66 KM pressurized, 33 KM gravity), ensuring precision and adherence to project specifications.
- ▣ Preparing detailed mechanical drawings and documentation, supporting project delivery and compliance with industry standards.

**KAITECH, Cairo • BIM Mechanical Power Trainee**

August 2022 – January 2023

- ▣ Created detailed BIM models for mechanical systems, ensuring precision and alignment with project requirements.
- ▣ Applied BIM standards and best practices for mechanical modeling, improving the quality and reliability of outputs.
- ▣ Collaborated with team members to achieve graduation project milestones and deadlines, playing a key role in the successful delivery of the project.

**Technology Innovation & Entrepreneurship Center (TIEC), Mansoura University, Mansoura • Business Trainee**

October 2021 – January 2022

- ▣ Identified and developed an innovative startup idea, creating a comprehensive Business Model Canvas and Business Plan to outline its feasibility and strategy.
- ▣ Conducted in-depth market research and analysis to understand market dynamics and potential opportunities for the startup idea.
- ▣ Studied the feasibility and viability of the selected idea, gaining practical insights into entrepreneurship and startup development.

**Holding Company for Water and Wastewater (HCWW) Mit-Khamis, Mansoura • Mechanical Power Engineering trainee**

August 2022 – October 2021

- ▣ Explored the station and its components, gaining hands-on experience with mechanical systems and infrastructure.
- ▣ Studied the cycles of water treatment, learning about the processes and technologies involved in water purification and wastewater treatment.
- ▣ Prepared a comprehensive final report detailing the station's operations and main functions, demonstrating understanding and insights gained during the training period.

**NEW AND RENEWABLE ENERGY AUTHORITY (NREA), Nasr City , Cairo** • Renewable Energy Intern  
August 2021 – September 2021

- ▣ Acquired knowledge of various new and renewable energy resources, gaining insights into their applications and benefits.
- ▣ Specialized in wind turbines, including studying their components, hydraulic cycles, and integration with SCADA (Supervisory Control and Data Acquisition) systems.

**KHALDA PETROLEUM COMPANY, Siwa Oasis** • Mechanical Power Engineering Intern  
July 2019 – August 2019

- ▣ Surveyed the gas production station, petrol production station, and gas turbines on-site, gaining practical knowledge of their operations and maintenance.
- ▣ Learned about pumps and the cycles of gas and petrol in the station, gaining insights into fluid dynamics and system operations.
- ▣ Assisted in the repair and assembly of an 8-Cylinder Diesel Engine, contributing to maintenance activities and technical skill development.

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## EDUCATION

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- **Mansoura University, Pre-Master Studies in mechanical power engineering, In Progress**
- **Faculty of Engineering, Mansoura University, Mansoura :**  
**Bachelor of Mechanical Power Engineering , Grade: Good (71.81%) , September 2017 – January 2022**

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## GRADUATION PROJECT

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- Developing A Compact Unit for Production of Pure Water for Medical Purposes.
- Studied water treatment methods and chose the suitable which is Membrane Distillation (MD).
- Manufactured the components of the project which are MD cell and Ultraviolet pre-filtration box.
- Earned financial fund (35,000 LE) from Academy of Scientific Research and Technology (Cairo).
- Participated in International Science and Engineering Innovations Competition (ISEIC) and achieved 1st place between Mansoura teams and 20th on about 100 participated teams.
- Project Grade: Excellent.

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## EXTRA-CURRICULAR ACTIVITIES

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**Resala Charity, Mansoura • Volunteer** September 2020 – Present

- ▣ Visited elderly homes, orphanages, and houses for people with special needs, providing companionship and support.
- ▣ Organized activities during visits to spread happiness and engage with residents.

**Mansoura Motorsport Team, Mansoura • HR Member** September 2020 – June 2022

- ▣ Conducted interviews for new members joining technical and non-technical sub-teams, assessing skills and fit for team roles.
- ▣ Monitored and followed up on members' commitment to team responsibilities and their progress on assigned tasks.

- Translated two articles from English to Arabic, contributing to the enrichment of Arabic content on the internet through Wikipedia.

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## RELEVANT COURSES

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**English for Engineering Course from AUC, online, July 2022**

**Lean Six Sigma Black Belt (LSSBB) | Introduction, and Productivity Analysis (Handasi), online, Nov 2021**

**Applied Hydraulics Course (O-Ring), online, Aug 2021**

**Basic Hydraulics, Electro Hydraulics Training Course (Siemens), Ain-Sokhna, May 2021**

**Fundamentals Of Project Management, University Center for Career Development at UCCD Mansoura Engineering (UCCD) cooperated with AUC, April 2021**

**Introduction To SOLIDWORKS on SolidProfessor, online, 2020**

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## SKILLS

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|----------------------|---------------------------------------|--------------------|---------------------|
| • Fast Learner       | • MATLAB                              | • Water Treatment  | • Hydraulics        |
| • Problem Solving    | • Building information modeling (BIM) | • SolidWorks (CAD) | • Infrastructure    |
| • Teamwork           | • Coordinating                        | • Innovation       | • Turbines          |
| • Microsoft Office   | • Distillation                        | • Management       | • Wastewater        |
| • Business Model     | • Renewable Energy                    | • Pumps            | • Power Engineering |
| • Career Development | • Creativity                          | • Entrepreneurship | • Research          |