

AHMED EL SHAREIF

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WORK EXPERIENCE

Systems Engineer Intern | Mirach Innovations, Dubai, UAE | May–Aug 2024

- Assisted in the development and integration of IoT solutions for Smart Metering systems, improving data transmission efficiency by 30% and reducing operational costs by 15%.
- Supported the design of PCB layouts for smart metering systems, enhancing signal integrity and reducing noise.
- Supported real-time data acquisition and connectivity integration with SAP Cloud through the development of middleware.

Project Coordinator Intern | MBA LLC, London, ON | Jun–Sep 2022

- Actively participated in a process optimization project aimed at enhancing job site operations using lean methodologies, leading to a 15% reduction in safety incidents.
 - Worked closely with operations teams to address technical issues and ensure equipment reliability.
 - Aided in a project raising awareness about energy consumption, leading to annual savings of 10,000 kWh and \$8,000.
 - Ensured strict adherence to safety regulations (OHSA) and practices during all activities.
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EDUCATION

Bachelor of Engineering: Mechanical Engineering and AI Systems Engineering, expected Apr 2027
University of Western Ontario – London, ON | CGPA: 3.7/4.0

TECHNICAL SKILLS

- Software: SolidWorks, AutoCAD, LabVIEW, LTSpice, Tableau, Arduino IDE, SAP, Microsoft Office (Word, Excel, Outlook, PowerPoint)
- Programming: Python, C, Java, SQL, MATLAB

SOFT SKILLS

- Strong communication and teamwork abilities
 - Effective under pressure and tight deadlines
 - Detail oriented with strong organizational skills
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CERTIFICATIONS

- Workplace Hazardous Materials Information System (WHMIS)
 - Certified SOLIDWORKS Associate (CSWA – Mechanical Design)
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HONOURS & AWARDS

- Dean's Honour List (2023, 2024, and 2025)
 - Western Scholarship of Distinction (2021)
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COURSE PROJECTS

3D Modelling & Design

- Optimized the design and material selection for Urban Canopee's Corolle Planters in collaboration with Maglin Site Furniture, improving strength, durability, and sustainability through FEA and material analysis (MME 3348A).

Thermal & Energy Systems

- Built an Arduino-controlled thermal testing system integrated with LabVIEW to measure and compare heat dissipation in finned and unfinned aluminum plates under both natural and forced convection conditions (MME 2285).

Software & Data Systems

- Designed a clinic database management system using SQL and HTML for data storage, retrieval, and reporting, improving record accessibility and user workflow (AISE 3309).
- Built a computer vision tool to detect surface defects and color irregularities on machined components, achieving over 90% detection accuracy (AISE 3350).