

Faisal A. Al-helali

Mechatronics Engineering Student

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Profile

Mechatronics Engineering student with experience in designing and integrating electromechanical and robotic systems through competition-based projects and applied coursework. Skilled in embedded systems, Arduino-based control, and mechanical design, with proven leadership in high-pressure environments.

Work experience

Intern 01/2026 – Present

WTCO [🔗](#)

Undergoing training in water transmission operations and infrastructure systems, focusing on efficiency, performance, and maintenance.

President of Mechatronics Club 12/2025 – Present

Umm Al-Qura University [🔗](#)

Founder and President of the first Mechatronics Club in Saudi Arabia, overseeing team coordination and technical projects.

Chief of Safety Officers, Pilgrimage Operations & Translator 07/2022 – 08/2025

Qafilat Makkah for Domestic Pilgrims Services - Seasonal Employment

Mecca

Designed and implemented crowd-flow plans under strict safety constraints, conducted risk assessments, and adapted procedures for dynamic, high-density operations.

Education and Qualifications

Bachelor of Mechatronics Engineering 09/2022 – 06/2027

Umm Al-Qura University, Mecca

Bachelor of Science in Mechatronics Engineering. Focus on Robotics, Automation, and Intelligent Systems.

Skills

Arduino / Embedded Systems (Competent) | Control Systems (Intermediate) | Fusion 360 (Competent) |

Python Programming (Beginner) | Autodesk Inventor (Intermediate) | Crowd Management & Safety

(Advanced) | Leadership (Advanced) | English (Proficient)

Courses

Python Basics [🔗](#)

University of Michigan

Completed five Python classes Covered programming fundamentals, functions, file handling, OOP, and introductory data analysis.

Mathematics for Machine Learning and Data Science [🔗](#)

DeepLearning.AI

Completed a three-course specialization Linear algebra, calculus, probability, and statistics applied to machine learning foundations.

Projects

Automated Beverage Dispensing System 12/2025

• Designed, built, and iteratively debugged a complete electromechanical system integrating custom circuitry, embedded control, and mechanical design.

Obstacle Course Drone – SAQER Robotics Competition 03/2025

• Built and integrated electrical components; assisted in flight control setup and motor tuning for obstacle navigation.

Tug-of-War Robot – Summer Robotics Championship 08/2025

• Designed and built the electrical system and mechanical structure of a four-motor differential-drive robot using Arduino, optimizing torque and traction.