

ABDULLAH AL MULQI

Undergraduate Student

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EDUCATION

Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea

Bachelor's Degree in Electric Engineering and Mechanical Engineering (Expected Grad. Feb. 2029)

Middle East Technical University (ODTU), Ankara, Türkiye

Bachelor's Degree in Electric Engineering. (Oct 2024 - Jan 2025)

- GPA: 3.55 / 4.0 (High Honors)

PROJECTS

Autonomous Drone [EE478]

- Built a full ROS-based autonomous flight software stack deployed on an NVIDIA Jetson Orin for real-time perception and navigation.
- Integrated Semi-direct Visual Odometry (SVO), depth mapping, and EKF-based sensor fusion to improve state estimation and mitigate odometry drift.
- Implemented YOLO object detection for targeted perception and automated landing sequences.

Autonomous Racing Model Car | Mechatronics System Design [ME209]

- Successfully implemented a PID (Proportional-Integral-Derivative) controller in C/Python to ensure the vehicle accurately follows track lines.
- developed a computer vision module using OpenCV and PyTorch to perform real-time traffic light and sign detection.

Caricature Drawing Robot | KAIST MR Club

- Designed and built a React-controlled drawing machine featuring custom open-loop stepper motor kinematics and step-to-distance coordinate tracking.

LEADERSHIP & ACTIVITIES

Member, KAIST Micro-Robotics Research Club (MR) (Spring 2025 - Present)

- Contributing to the development of a caricature-drawing robot and a solo smart glove project.

Workshop Lead, AI Nexus & Computer Club @ Al-Rowad International School] 2023-2024

- Designed and led a hands-on technical workshop on AI, ML, Computer building, Programming, etc.. for hundreds of students.

Host & Master of Graduation Ceremony (June 2024)

- Hosted the graduation ceremony of Al-Rowad International School, presenting to an audience of over a thousand students, faculty, and families.

PROFESSIONAL EXPERIENCE

Document Digitization Specialist | Crawford Doors KSA | Riyadh, Saudi Arabia (July 2021 - Aug 2021)

- Scanned, categorized, and archived thousands of corporate documents to a secure cloud server, ensuring data integrity and confidentiality.

AWARDS & HONORS

- High Honors, Middle East Technical University (Fall, 2024)
- Outstanding Cambridge Learner Award; Highest Mark in the World, AS-Level Chemistry; Highest Mark in Saudi Arabia, A-Level Physics
- Valedictorian, Ranked 1st in Graduating Class, Al-Rowad International Schools (2024)

SKILLS

- Programming Languages: Python, C, Bash, Visual Basic
- Frameworks & Libraries: PyTorch, Pandas, NumPy, Turtle, ROS
- Developer Tools: Docker, Git & GitHub, Linux
- Hardware & Embedded Systems: Arduino, Raspberry Pi, Jetson Nano Orin, ESP32S
- Technical Interests: Drones, Robotics, Local LLM Implementation, AI Agents, PC Building
- 3D design: SolidWorks, Fusion