Abdul Maajid Aga

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Skills

Technical Skills:

- Java | Python | ROS | Verilog | MATLAB | JavaScript | C++ | C | Git | HTML | CSS | Linux | V-REP | Path Planning | CAD | Embedded Systems | AI & Machine Learning | Simulation Software (Gazebo) | Autonomous Systems | Version Control | Embedded Platforms (ESP32, microcontrollers) | Documentation

Soft Skills:

- Advanced Calculus | Data Structures | Debugging | Analytical Thinking | Research Expertise | Leadership & Team Management | Project Management | Effective Communication | Problem Solving | Team Collaboration | Creative Thinking | Time Management

Languages:

- English | Hindi | Urdu (Professional proficiency) | Arabic (Elementary proficiency)

Experience

Project Contributor — Mubadala Competition — *Dubai, UAE* — **07/2024 - 07/2025**

- Collaborating with a multidisciplinary team to design and develop an Unmanned Surface Vehicle (USV) for waste collection and disposal.
- Responsible for the business and electronics aspects of the project, focusing on market analysis, financial planning, and optimizing the electronic systems for efficient operation.
- Working with ESP and micro-ROS to establish reliable communication between the USV and its control system, ensuring smooth operation and real-time control.

Treasurer & Event Executive — Engineers 4 Life Society — *Dubai, UAE* — **09/2024 - 05/2025**

- Oversaw financial management, including budgeting, fund allocation, and record-keeping, ensuring transparency and effective resource utilization.
- Led the planning and execution of events, coordinating logistics, team efforts, and participant engagement to ensure successful outcomes.

IROS Conference Volunteer Coordinator — Khalifa University — *Abu Dhabi, UAE* — **10/2024 - 11/2024**

- Led coordination efforts for a team of volunteers, establishing efficient communication channels through a WhatsApp group and ensuring smooth execution of responsibilities.
- Oversaw booth setups, provided on-site guidance at the ADNEC Centre, and proactively addressed logistical challenges to ensure seamless conference operations.
- Demonstrated strong organizational and leadership skills, maintaining a high standard of professionalism and contributing to the event's overall success.

ROS Project Developer — Heriot Watt University — *Dubai, UAE* — **05/2024 - 06/2024**

- Developed an advanced ROS project for the Kinova Gen3 Lite robotic arm, integrating Gazebo simulation and version control for a robust development framework.
- Implemented AI algorithms enabling the robot to excel in Tic Tac Toe and perform efficient pick-and-stack tasks.

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Climate Hub Volunteer (COP 28)	**SCRAPP**	*Dubai, UAE*	**11/2023 - 12/2023**

- Led proactive engagement with event guests, fostering meaningful conversations to articulate the mission and goal of SCRAPP.
- Showcased adept exhibition management skills through effective communication with visitors and team members, skillfully articulating the company's value proposition.
- Provided personalized explanations of the company's vision to a diverse audience, including high-profile individuals and billionaires.

Teacher Volunteer	**The Indian High School**	*Dubai, UAE*	**08/2022 - 11/2022**

- Delivered a 3-month curriculum to grade 8 students, focusing on robotics and software development.
- Customized lessons, facilitated hands-on learning, and assessed student progress to promote STEM education and critical thinking.

Education

Bachelor of Engineering (in progress)	**Heriot Watt University**	*Dubai, UAE*	**09/2023 - 09/2026**

- Robotics, Autonomous & Interactive Systems (Year 3)

High School Graduate	**The Indian High School**	*Dubai, UAE*	**05/2009 - 05/2023**

- Subjects : Physics (95), Chemistry (95), Mathematics (80), Biology (92)

Achievements

- **IET Prize Winner 2024 :** Nominated for the prestigious IET Student Prize, recognizing outstanding academic achievement and potential in the field of engineering. The award honors students who demonstrate exceptional performance, innovation, and contribution to the engineering community.

- **University Prize :** Awarded to the highest-ranking student across the Dubai, Malaysia, and UK campuses in the School of Engineering for exceptional academic performance, along with a £100 prize.

- **Deputy Principals Award :** Achieved distinction by securing an A grade in all courses in Year 2 **(05/2024)**

- **9th India Middle East Education Awards 2023 :** Recipient of the High Achievers Award issued by Yalla Schools **(06/2023)**

- **First Place in Global Hackathon:** Our team won the Global Hackathon on Smart City Solutions organized by the Engineer's 4 Life Club. My presentation centered on a case study of the implementation of kinetic steppers in urban hotspots as an alternative energy solution.