

Husain Hashem Altelly

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Professional Summary

Robotics and Artificial Intelligence undergraduate at Khalifa University seeking a Summer 2027 internship in robotics, autonomous systems or applied artificial intelligence. Experience includes motion planning, software development, automated testing and award-winning team projects.

Education

Bachelor of Science in Robotics and Artificial Intelligence

Expected May 2028

Khalifa University, Abu Dhabi | January 2025 to Present

Prior Computer Engineering study: August to December 2024

Grade point average: 3.20/4.00 | 70 credits completed | 15 credits in progress

Selected current coursework ROBO 301 Signals and Systems; ROBO 302 Robot Sensing; ROBO 303 Robot Modelling; ROBO 304 Design of Robotic Systems. All in progress.

Khalifa Bin Zayed Secondary School

2024

Secondary School Certificate, Advanced Stream | Average 97.92%

Experience

Team Member | KURA RoboCup Team

September 2026 to Present

Khalifa University, Abu Dhabi

- Analyzing ball-tracking and goalkeeper prediction logic in the team's Robot Operating System 2 software, focusing on camera measurement noise and incoming-ball trajectories.

Vice President

January 2026 to Present

Khalifa University Entrepreneurship and Innovation Club, Abu Dhabi

- Co-leading planning and operations across four departments.
- Supported a pitch competition that attracted approximately 40 registrations.

Event Staff | Vibes Staffing

December 2025 to February 2026

Abu Dhabi, United Arab Emirates

- Managed event logistics and guest relations at conferences and exhibitions serving approximately 2,000 attendees per day.

Projects

Nomo Family Safety and Coordination

July to September 2026

Team project | Flutter, FastAPI, PostgreSQL

- Co-developed a mobile prototype combining shared family calendars and optional camera monitoring; refined onboarding, calendar explanations and camera setup.
- Added regression tests for interface behaviour, cached data and failure recovery; evaluated Android workflows and a local fall-detection demonstration using staged trials.

Projects continued

Model T42 Robotic Gripper

May 2026

ROBO 204 Physical Embodiment of Robotic Systems | Team project

- Implemented the Yale OpenHand T42 gripper in a four-person team, combining MATLAB analysis, tendon-driven assembly and motor calibration for basic grasping.

Two-Wheeled Balancing Robot

April 2026

ROBO 205 Electronic Circuits | Team project

- Built and tested a balancing robot in a four-person team using Arduino, MicroPython, inertial sensor filtering and proportional motor control.

Flowra Conversation Intelligence Application

March 2026

Team project | Electron, React, TypeScript, Supabase

- Co-developed a desktop prototype for conversation review, response practice and live coaching, combining audio capture, automated transcription and post-conversation analysis.

Robot Motion Planning

August to December 2025

Khalifa University | ROBO 201 and ROBO 202

Motion Planning Algorithms for Robotics; Software Development for Robotics

- Implemented Rapidly Exploring Random Tree and Probabilistic Roadmap algorithms in Python for collision-free two-dimensional routes, with A-star roadmap search.
- Created route visualizations and used a test harness covering 54 parameter configurations for sampling, connection radius and step size.

AURORA Mission X

October to November 2025

SpaceAware Application Challenge | Flutter, Dart, Flame

- Co-developed a 14-stage educational landing simulator with Gemini guidance, flight and fuel modelling, and a separate interactive Q-learning demonstration.

Technical Skills

Programming Python, MicroPython, MATLAB, Dart, TypeScript

Robotics Robot Operating System 2, Gazebo, RViz, Cartographer, simultaneous localization and mapping, motion planning, inertial sensor filtering, motor control

Software and tools Flutter, React, Electron, FastAPI, PostgreSQL, Supabase, Git, Linux, automated testing

Languages Arabic native | English fluent | International English Language Testing System: overall band 7

Achievements

- **Won the Most Useful Track award** for Flowra, Socia Global Build Challenge. March 2026
- **Placed third** with AURORA Mission X, SpaceAware Application Challenge. November 2025
- **Earned Dean's List recognition** at Khalifa University. Fall 2024
- **Received Top Student recognition** at Khalifa Bin Zayed Secondary School. 2020 to 2024