



# ADHAM ALI

## ENGINEERING STUDENT IN ROBOTICS & INSTRUMENTATION

### CONTACT

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### SKILLS

#### Robotics & Automation

- Introduction to industrial programmable logic controllers (PLCs)
- Programming in Ladder language (LD)
- Proficient in ROS (Robot Operating System)

#### Embedded Programming & Software Development

- Programming in Python, C/C++, Shell/Linux, Arduino
- Sensor data processing (LiDAR, camera)
- Real-time system design and integration

#### CAO & Conception

- Mechanical modeling and 3D design using Fusion 360

### LANGUAGES

- Arabe (Native)
- Français (C1)
- Anglais (B2)
- Espagnol (B1)
- Allemand (A1)

### CERTIFICATES

TOEIC® Listening and Reading test  
02-2025

DELE (Diploma de español como lengua extranjera)  
06-2021



### PROFILE

4th-year engineering student at Polytech Dijon, majoring in Robotics and Instrumentation. I am seeking a full-time internship of at least 17 weeks between April and August 2026 in the fields of industrial robotics, mobile robotics, or automation.



### EDUCATION

**Engineering Degree in Robotics & Instrumentation** 09-2022 - PRESENT  
Polytech Dijon | Université de Bourgogne *Dijon, France*

**French General Baccalaureate Diploma** Graduated 06-2022  
Lycée français de Koweït (LFK) *Salmiya, Koweït*  
With Highest Honors (Mention Très Bien)



### EXPERIENCE

**Mobile Robotics Internship** 06-2025 - 07-2025  
*ImViA Lab, University of Burgundy*

Integration, SLAM visualization, and navigation planning on Clearpath's Jackal robot

- Integrated, visualized, and planned SLAM navigation on Clearpath's Jackal robot
- Designed an autonomous navigation protocol for full exploration and mapping of a lab
- Tools: ROS, RTAB-Map, RViz

**AWAKE Challenge 2025 | INNOVATEAM (National Robotics Competition)** Completed 06-2025  
*Puteaux, France*

Co-developed a 1/10-scale autonomous vehicle

- Achieved 4th place out of 12 competing teams
- Conducted electrical analysis of the power system (motors and control board)
- Designed the chassis, body, and component mounts using Fusion 360

**Omnidirectional Drawing Robot** Completed 01-2025

Designed and built a mobile robot capable of drawing precise geometric shapes

- Programmed in C/C++ and Arduino
- Embedded system design on Webots
- Sensor and actuator integration
- Systematic troubleshooting and debugging

**Simulated Exploration Robot with LiDAR** Completed 12-2024

Autonomous Vacuum Robot Development with Obstacle Avoidance and Room Detection

- Designed a custom algorithm to compute the barycenter of a room and navigate between rooms.
- Implemented using C++, OpenCV, and Qt for real-time perception and control.

**ASFOUR Game - Interactive Boids Simulation** Completed 11-2024

Programmed a game from scratch in Python using Pygame with a custom graphical interface

- Developed interactive interfaces and simulations using Python and Pygame
- Implemented and optimized movement algorithms based on cohesion, alignment, and separation rules
- Used an iterative approach to enhance performance and optimize trajectory calculations