



# AHMED ESSAM

Control & Systems Engineer  
Embedded & Smart Systems  
Industrial Automation

## CONTACT

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Baghdad, Iraq

## TECHNICAL SKILLS

- Management Skills
- Negotiation
- Self-Learning
- Team Collaboration
- MATLAB & Simulink - Lab applications
- Arduino, ESP32, Microcontrollers, UART
- Web Development - Self-taught practice
- PLC Programming - University coursework

## LANGUAGE

- Arabic: Native
- English: Intermediate

## OBJECTIVE

Control and Systems Engineer with practical experience in industrial automation, embedded systems, and smart technologies. Focused on engineering problem-solving, system development, and project implementation.

## PROFESSIONAL EXPERIENCE

### Sales and Support Assistant

#### Beirut Medical Supplies

Provided technical product explanations and sales support for medical devices. Ensured optimal customer service and maintained stock availability.

### Electronics and Control Intern

#### Al-Munir Home Appliances Manufacturing Company

Assisted in testing and supporting the production of control panels. Gained hands-on experience with electronic systems in appliance manufacturing.

### Freelance Embedded Systems Developer

Developed and deployed embedded projects using Arduino and ESP32. Integrated various sensors and wireless modules to build automation systems.

### Freelance Control Systems Engineer

#### MATLAB/Simulink Projects

Simulated and tested control systems using MATLAB/Simulink for various engineering applications.

### Graduation project

#### Smart Vehicle System - University of Technology

This vehicle features integrated sensor-based navigation, PWM speed control, wireless control via a web interface, and an ultrasonic sensor and tracking camera.

## EDUCATION

### University of Technology

2025-2021

BSc in Control and Systems Engineering