

# Mohannad Abobakr Gabr Guhaish



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## Profile

A passionate and detail-oriented Mechatronics Engineering with a solid foundation in electrical, mechanical systems, electronics, control systems, and programming. Skilled in combining engineering principles with innovative technology to design and analyze integrated systems. Adept at problem-solving and eager to apply academic knowledge to real-world challenges in automation, robotics, and industrial systems. Committed to continuous learning and development to excel in the field of mechatronics and contribute effectively to team projects and organizational goals.

## Education

10/2018 – 11/2019 Sana'a, Yemen	<b>High School   96.13%</b> <b>Jamal Abdalnasser High School</b> Jamal Abdalnasser High School for Academically Excellent Students Graduation Year: [2019] <ul style="list-style-type: none"><li>Completed an intensive three-year academic program tailored for high-achieving students.</li><li>Graduated with a distinguished score of 96.13%, demonstrating exceptional performance in subjects.</li><li>Selected and trained in a competitive environment focused on fostering academic excellence and leadership skills.</li></ul>
10/2020 – present Sana'a, Yemen	<b>Mechatronics Engineering Department   84%</b> <b>Sana'a University (Faculty of Engineering)</b> Graduation Year: [2025] <ul style="list-style-type: none"><li>Gain extensive knowledge in the field of mechatronics engineering, by combining mechanical, electrical and control systems to develop innovative automated solutions.</li><li>Gained a strong foundation in robotics, control, sensor integration, and system design.</li><li>Completed advanced coursework in automation, electronics, and system modeling with hands-on training in factory environment.</li><li>Prepared to apply multidisciplinary engineering knowledge to real-world challenges in industrial automation and smart systems.</li></ul>

## Certifications & Training

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01/2020 – 12/2021

Sana'a, Yemen

### English Language Program

#### 4U American Language & Computer Institute

- Completed a structured English language program focused on improving proficiency in reading, writing, speaking, and listening skills.
- Gained a strong foundation in conversational and professional English, enabling effective communication in diverse environments.
- Developed advanced grammar, vocabulary, and comprehension skills tailored for academic and professional use.

01/12/2024 – 15/12/2024

Sana'a, Yemen

### Industrial Training

#### Arwa Mineral Water Manufacturing Company (Shamlan)

- Expanded Knowledge Beyond Curriculum.
- Enhanced Communication, Leadership, and Teamwork Skills.
- Strengthened Problem-Solving Abilities with Real-World Challenges.

## Skills

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### Technical Skills

#### 1. Mechatronics and Automation

- Proficient in integrating mechanical, electrical, and control systems.
- Knowledge of PLC programming (e.g., Siemens, Allen-Bradley).
- Knowledge of Logo & Lovato programming.
- Experience with robotics and automation systems.
- Artificial Intelligence & Machine Learning Systems.

#### 2. Design and Analysis

- CAD software expertise (e.g., SolidWorks, Mastercam).
- Simulation and modeling tools (e.g., MATLAB, Simulink, Automation Studio, Proteus, LabView, Multisim, Factoryio).

#### 3. Programming and Control

- PLC programming (e.g., Tia portal).
- Low level languages (e.g., Machine, Assembly).
- procedural programming language (e.g., C)
- High level languages (e.g., C++, Python).
- Microcontroller programming (e.g., Raspberry Pi, Arduino, Esp, PIC).
- Robot operating System (ROS).
- Classic Control Systems.
- HMI and SCADA systems.
- Industrial Communication Protocols

#### 4. Sensors and Actuators

- Experience working with various industrial sensors and actuators.
- knowledge of pneumatics and hydraulics.
- knowledge of Heating, Ventilation and Air Conditioning.

#### 5. Mobile & App Development

- Flutter framework (Dart) for cross-platform mobile apps.
- Experience building responsive UIs, state management (e.g., GetX, Provider), and integrating RESTful APIs in Flutter.

## Soft Skills

### 1. Problem-Solving

- Skilled at diagnosing and troubleshooting engineering challenges.

### 2. Communication

- Proficient in English for technical communication and team collaboration.

### 3. Teamwork and Collaboration

- Effective working in cross-functional teams.

### 4. Time Management

- Ability to handle multiple tasks and meet deadlines.

### 5. Adaptability and Quick Learning

- Highly adaptable with a proven ability to learn new concepts, tools, and technologies swiftly.

### 6. Initiative and Innovation

- Proactive in identifying opportunities for improvement and implementing creative solutions to enhance project outcomes.

## Language Skills

- Fluent in **English** (Advanced level).
- Native proficiency in **Arabic**.

## Projects

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### Automated Fruit & Vegetables Washing System for Jam Production Line

- **Description:** The system is fully customizable, with adjustable water pressure, conveyor speed, and cleaning intensity to accommodate a wide range of fruit types and production volumes. An optional drying section with air blowers will remove excess moisture from the cleaned fruits, ensuring they are ready for subsequent stages like peeling, pulping, or cooking.
- **Technologies Used:** [e.g., SolidWorks, Classic Control, PLC programming].

### Mazaji App

- **Description:** Developed a comprehensive entertainment discovery platform called "Mazaji" using Flutter and modern mobile development practices. The project involved creating a sophisticated app that combines content discovery, AI-powered recommendations, and social features for a seamless entertainment experience.
- **Technologies Used:** [e.g., Flutter, GetX, Supabase, TMDB API, Google/Facebook Auth].

## Interests

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- PLC Programming and Industrial Automation
- Robotics and automation technologies
- Industrial system optimization
- Emerging trends in AI and IoT for mechatronics
- Safety Systems and Standards