Souhail Mandhouj

Bachelor's Degree in Electronics, Electrotechnics, and Automation (Industrial Automation and Informatics)

CONTACT

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EDUCATION

2021-2025

Université de Gabes , Faculty of science Gabes .

Bachelor's Degree in Electronics, Electrotechnics, and Automation (Industrial Automation and Informatics)

SOFTWARE PROFICIENCY

- MATLAB
- ISIS (Proteus)
- Eagle (PCB Design)
- IPSim
- VHDL
- Visual Studio,
- Arduino IDE
- Basic Studio
- MIT App Inventor.

TECHNICAL SKILLS

Microcontrollers and Development Boards: Experience with Arduino Proficient in developing and implementing IoT projects, including sensor integration and data communication for smart city applications.

Programming Languages

- C ,C++,C#
- python
- HTML, CSS

Langues

- French (Native) - Written and spoken translation experience
- English (Fluent) - Business communication
- Arabic (Conversational) - Basic comprehension and speaking

PROFILE

Motivated and dedicated student of Industrial Electronics and Computer Science, with a solid foundation in electronic systems, programming, and IoT technologies. Experienced in robotics competitions and practical projects, showcasing strong analytical and problem-solving skills. Eager to apply technical expertise in a challenging internship or entry-level position within the technology sector.

EXPERIENCE

Worker internship within the Mercedes house "DTS Motors djerba midoun" 21-06- 2022 / 21-07-2022

- Automotive diagnostics
- Search for anomalies and breakdowns managed by the computer
- Read the defailt code and test the functionality
- Programming of service time mileage
- **"Member a tech titans"**

PROJECTS

- All-Terrain Robot:Developed a robotic system controlled via a Bluetooth-enabled device, such as a smartphone or tablet. The project involved designing the hardware architecture, integrating motors, sensors, and a microcontroller, and implementing a wireless communication module. The robot's movements and functions were managed through a custom mobile application, enabling remote control in real-time. This project demonstrated expertise in embedded systems, Bluetooth communication protocols, and programming for wireless connectivity.
- Line-Following Robot:A line follower robot is an autonomous robotic system designed to follow a pre-defined path, typically marked by a black or white line on a contrasting surface. The robot uses sensors, such as infrared (IR) or optical sensors, to detect the path and adjusts its movements accordingly. This project involves integrating hardware components (motors, sensors, microcontrollers) and programming control algorithms to achieve precision and efficiency. It serves as an excellent demonstration of embedded systems, real-time control, and robotics principles.
- Developed a mobile ride-hailing application using MIT App Inventor

Soft Skills

- Leadership
- Team Collaboration
- Problem-Solving