OUSSEMA FATTOUM

License in Electronics, Electrotechnics and Automatics

CONTACT

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COMPUTER TOOLS

- Python
- C++
- Arduino
- microPYTHON

TECHNICAL SKILLS

roubleshooting
Robot development,
Embedded
Ability to take responsibility for the success of a project within a specific timeframe and work as a team
Ability to learn quickly

MASTERED SOFTWARES

- Microsoft Office
- Arduino IDE
- ISIS Proteus
- PSIM
- SIMATIC STEP 7
- Visual Studio code

Languages

- **FRENSH**
- **ENGLISH**

PROFILE

Passionate about robotics and embedded systems, I am currently pursuing a degree in Electronics, Electrotechnics, and Automation, with a specialization in Automation and Industrial Computing, at the Faculty of Sciences of Gabès. With substantial experience in robot development and robotics project management, I am seeking a Final Year Project (PFE) internship to apply my technical expertise and contribute to innovative projects.

EDUCATION

- **License in Electronics, Electrotechnics and Automatics , specialty electronics and industrial computing**

Faculty of Sciences of Gabès

EXPERIENCES

- Member IEEE
- CHAIR TECH-TITIANS ROBOTICS CLUB
- **win the second place in a robotics competition at the Institut International de Technologie de Sfax (North American Private University)**
- Trainer in Robotics and Web Development

Conducted hands-on workshops, teaching programming and practical applications in robotics and web development skills to participants.

CERTIFICATION

- **Web development** (HTML , CSS , BOOTSTRAP , GIT) :
- https://github.com/Oussemafattoum?tab=repositories
- **ARDUINO AND ROBOTICS PROGRAMMING**
- **ESP32**
- **RASPBERRY PI PICO W**
- **AI AND COMPUTER VISION** [in progress]

PROJECTS

- **All-Terrain Robot**
- **Line Following Robot**
- **Intelligent Tank Control System :**

The Smart Water Tank Measurement System utilizes an ultrasonic sensor (HC-SR04) to measure water levels and relays to automate the operation of a pump based on these measurements. The project involves designing the circuit to connect the ultrasonic sensor and relays, programming in MicroPython to read water levels and control the pump, and implementing the system to automate the water tank filling process using sensor data.

- **Intelligent Conveyor System**

The Smart Conveyor System uses an infrared sensor for object detection and an L298N motor driver to control DC motors. The project includes designing the circuit to connect the sensor and motor driver, programming in MicroPython to automate the conveyor based on object detection, and implementing a system that moves objects based on sensor input.

- **Smart Plant Monitoring System**

The Smart Plant Monitoring System uses an OLED SSD1306 display to show real-time plant data. It incorporates soil moisture and light sensors to monitor environmental conditions, ensuring optimal plant health. The circuit design connects these sensors to the OLED display, while MicroPython programming is used to code the system, updating the plant's status. This hands-on project enables continuous monitoring of plant health and provides instant feedback through the display

- **Smart Door**

The Smart Door project uses a stepper motor and A4988 driver for precise control of the door's position. The stepper motor is connected to an ESP32, with MicroPython programming to manage the door's opening and closing. This system enables the smart door to operate with accuracy, responding to user inputs or sensors for automated control