Maryem Haddoug

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Education

Faculty of science **Sep 2022-jun 2025**
Bachelor in Electronics and Industrial Computing (3nd year)

Skills

Technical skills PCB Design,Eagle ,Proteus Max+Plus, Arduino,PIC, Ladder logic, PSIM, VHDL,STM32,ROS
Soft skills Teamwork, Leadership, Adaptability, and Communication

Programming Languages Python, C/C++, VB, Matlab

Languages English,Frensh,Arabic,German

Experience

Intership at OACA **Aug 2023**

- Assisted in diagnosing and repairing automated systems in an industrial environment.
- Diagnosed and repaired automated systems in an industrial environment, improving system uptime by 15
- Conducted weekly generator start-up procedures to ensure readiness in case of main source failure.
- Successfully installed and calibrated wind indicators powered by STEG, ensuring accurate environmental data collection for operational efficiency.
- Calculated energy consumption and pricing to optimize operational costs.
- Installed asynchronous motors for conveyor belt systems, ensuring seamless integration and functionality.
- Documented the project development process, providing clear guidelines for future maintenance and upgrades. Link

Projects

PCB Fire Forest Guardian **Link**

- Developed a fire detection system using sensors to send real-time alerts to a central CPU for analysis and action.
- Designed a dashboard to display fire locations with visual indicators on maps for enhanced monitoring and response.
- Implemented an automated notification system to alert Civil Protection teams in case of emergencies.

TrustGuard **Link**

- Deployed AI-powered cameras to detect violence in public spaces (e.g., street fights, vandalism) in real-time.
- Created a dynamic map visualization for Tunisia, displaying cities/states in red for detected violence and blue for normal conditions.
- Integrated real-time updates and alert notifications to authorities for rapid intervention.

PCB Design Control Card **Link**

- Designed schematics and multi-layer PCB layouts using CAD software, ensuring signal integrity and compactness.
- Created 3D models of the PCB and enclosure to validate mechanical fit and streamline manufacturing.
- Conducted prototyping, testing, and final validation for functionality and reliability.

Extracurricular activities

IEEE membre ENIG Student Branch **Link**

- Engaged in technical workshops, conferences, and networking events to foster professional growth.
- Spearheaded the planning and execution of BrainBoostV1 and Student Startup Sfari V1, leading a team of 10 volunteers and attracting 50+ attendees.
- Advocated for industry best practices and ethical standards in engineering and technology.
- Served as an ambassador for multiple events, strengthening the branch's visibility and outreach.

Certifications

Chatbot **Link**