CHERNI BORHEN
EMBEDDED SYSTEMS AND INDUSTRIAL MAINTEANACE ENGINEER
TECHNOLOGY ENTHUSIAST

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I am deeply passionate about robotics, its technologies, artificial intelligence, machine learning, deep learning, and embedded systems. I constantly stay updated with the latest advancements in these fields and thrive on exploring new technologies and programming to drive innovative solutions.

EDUCATION

NATIONAL INSTITUTE OF APPLIED SCIENCE AND TECHNOLOGY OF TUNIS　　　**2022-NOW**

Instrumentaion and industrial maintenance

DAR LAMEN SECONDARY SCHOOL KAIROUAN　　　**2018-2022**

Scientific baccalaureate

PERSONAL PROJECTS

Development of a Stock Management Application　　　**May 2024**

Development of a stock management application to help businesses track and manage their inventories in real-time, using Java, JavaFX, and Scene Builder.

- Designing the application's architecture using the MVC pattern
- Writing and optimizing Java code for stock management features
- Creating the user interface with JavaFX and Scene Builder for intuitive and efficient interaction
- Connecting to and interacting with an SQL database for CRUD (Create, Read, Update, Delete) operations
- Ability to identify and solve complex technical issues, regularly present project progress, write detailed technical documentation, and plan project phases.

Line Following Robot　　　**February 2024**

Develop an autonomous robot capable of following a line drawn on the ground and overcoming obstacles using infrared and ultrasonic sensors and arduino UNO and control algorithms.

- Designing the electronic schematic using KICAD and the robot's chassis using SOLIDWORKS
- Writing and optimizing code for sensor reading and motor control using ARDUINO IDE
- Planning project phases, managing time, and coordinating with team members as a team leader

POSITIONS AND RESPONSABILITIES

Technical Team Member of Robolympix 2.0　　　**Mars 2024**

- Contribute to the 3D design of maps and competition fields.
- Participate in the fabrication of event elements, ensuring their accuracy and quality.
- Participate in the homologation of robots to ensure they meet competition rules and standards.
- Provide ongoing technical support and maintenance throughout the event to ensure smooth operations.

Media Manager of Al Sharq Youth Hub Tunisia　　　**January 2022 - Juin 2024**

- Develop and implement a communication strategy for the association, aligned with its goals and mission.
- Create and publish compelling and engaging content for social media, the website, and other communication channels.
- Design and produce creative posters and visual materials to promote the association's activities.
- Lead teams and coordinate projects to ensure effective execution of events.

HR Manager in Fahmologia INSAT　　　**January 2024 - Mai 2024**

- Maintain up-to-date member records and manage the member database.
- Facilitate communication between members and different teams within the club.
- Proactively and fairly manage conflicts and issues between members.

Chairman of DYNAMIC Club Dar Lamen   **October2020 - Juin 2021**

- Lead and oversee all club activities, ensuring coordination of teams and projects.
- Plan, organize, and supervise events, workshops, and seminars for club members.
- Represent the club to the school administration, partners, and other student organizations.
- Conduct club meetings and set strategic goals and priorities.

SKILLS

- **Software Development:** HTML , CSS , Java Script , Python , Java
- **AI and DATA:** Scikit-learn , TensorFlow , NumPy , Matplotlib , Pandas
- **Robotics:** C , SolidsWorks , Kicad , Lunix
- **Others:** GitHub , Adobe Illustrator , Adobe Photoshop , Adobe Premiere Pro

ADDITIONAL INFORMATION

- **Certifications:** Supervised Machine Learning (Coursera)
- **Awards/Activities:** 2nd place in AEROSPINA 8.0