Nezih Ben Jemia

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Mechatronic engineer with software engineering experience, deeply passionate about **Embedded systems** and **Robotic**.

EXPERIENCE

Robotic simulation —Self-Taught Development Project

(2023-January — 2023-February)

- Gazebo simulation of an unmanned robot .
- TO-ADD HERE.

Ros1, Rviz,

Andon System Prototype—Freelance project with Fixtronix
(2023-September — 2023-November)

- Initiated an Andon system prototype for real-time industrial issue visibility.
- Incorporating email and SMS notifications.

Raspberry Pi, Node-Red, SMTP, EsP32, Mqtt

Ticketing System with Multi-Role Support —Freelance project for Fixtronix
(2023-January — 2023-July)

- Developed a multi-role ticketing system with real-time tracking capabilities.
- Utilized advanced analytics to provide insights into ticket management.
- Implemented systems that digitized 60% of paperwork, significantly boosting workflow efficiency.

Angular, NestJS, Socket.IO, GraphQL, MongoDB

After sales service Application —Graduation Internship project MS-TECHSOFT (2022)

- Designed and developed an application to streamline after-sales service operations.
- Created a comprehensive dashboard for real-time monitoring of SLAs and KPIs.

React Native, NestJs, GraphQL, MongoDB

EDUCATION

Esprit, Tunis —Mechatronic engineer

(2017 - 2022)
Electromechanical engineer specialized in Mechatronic.

CSF, Tunis —**Training in Embedded System**
2020
Developed practical skills in embedded systems.

Your Robot, Esprit Tunis —**Member of Robotic club**
2021-2022
Worked on various projects: 3d printer, line follower robot.

SKILLS

- ROS1 noetic: Rviz,Gazebo
- C, C++, JavaScript,Python
- Serial Protocols: UART, SPI, I2C, CAN
- Messaging Protocol: MQTT,HTTP/HTTPS
- Angular, React Native, Nest.js, Node.js,GraphQL
- Node-Red
- GIT
- Electronic hardware
- Pcb Design: KiCad
- PLC programming
- Mechanical design: Solidworks,Catia
- DataBase: MongoDB

LANGUAGES

French: C2 (TCF)
English: B2
Arabic: Native