

Nessrine KADDOUR

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Final-year Mechatronics Engineering student at the National Engineering School of Sousse, seeking a Mitacs research internship starting in May 2025. Experienced in robotics, IoT, and intelligent systems. Skilled in conducting research, analyzing data, and solving complex engineering problems.

ACADEMIC TRAINING

National Engineering Degree in Mechatronics - <i>in progress</i> <i>National School of Engineers of Sousse, Tunisia - ENISo</i>	2023 - present
Undergraduate University Degree <i>Preparatory Institute for Engineering Studies of Monastir, Tunisia - IPEIM</i>	2021 - 2023
Baccalaureate Diploma in Experimental Sciences - <i>Honors: with highest honors</i> <i>Cité High School - Gafsa, Tunisia</i>	2020 - 2021

PROFESSIONAL EXPERIENCE

Groupe Chimique Tunisien	<i>July 2024 - August 2024, Gafsa, Tunisia</i>
<ul style="list-style-type: none">- Applied advanced process monitoring techniques to control the production chain across multiple departments using DeltaV software, ensuring operational efficiency and consistency.- Troubleshoot and optimized automated control systems to maintain smooth production operations, improve system reliability, and minimize downtime.	
YAZAKI	<i>July 2025 - August 2025, Gafsa, Tunisia</i>
<ul style="list-style-type: none">- Designed and implemented an IoT based ProdMon system to monitor and optimize production processes, enhancing data-driven decision-making and operational efficiency.- Developed a testing system to verify product compliance using the Clip Checker.	

TECHNICAL SKILLS

- **CAD Simulation:** SolidWorks, Webots, RoboDK.
- **CAM FAO Tools:** Mastercam.
- **Programming Languages:** Python, C/C++, React, Java Script.
- **Microsoft Office** Excel, Word, PowerPoint.
- **Methodology:** Agile, Scrum.
- **Soft Skills:** Analytical Thinking, communication, teamwork, problem solving.

LANGUAGE SKILLS

- French (Advanced)
- English (Advanced)
- Arabic (Advanced)

ACADAMIC PROJECTS

Semi-automated vehicle seat:
<ul style="list-style-type: none">- Led the development of a semi-automated car seat adjustment system, ensuring precise and stable positioning through motor integration, sensors, and a screwnut mechanism.- Performed mechanical design using SolidWorks, electrical system design, and performance simulations to validate functionality and reliability.
Robot simulation using Cyber-robotics solution:
<ul style="list-style-type: none">- Simulated and collected data from various robotic platforms using Webots, focusing on performance evaluation and interaction with the environment.
Development of a docking algorithm based on a depth image:
<ul style="list-style-type: none">- Developed a docking algorithm to enable autonomous alignment and precise positioning of a mobile robot.

VOLUNTEER EXPERIENCE

Junior Enterprise ENISo	
<i>HR & Training Manager</i>	<i>2024 - 2025, Sousse, Tunisia</i>
<ul style="list-style-type: none">- Managed recruitment processes, members relations, and performance evaluations while fostering a positive work environment.- Planned and coordinated training sessions and ensured HR compliance with ISO 9001 standards.	
Junior Enterprise ENISo	
<i>Scrum Master</i>	<i>2023 - 2024, Sousse, Tunisia</i>