

# AMRANI MEHDI | COMPUTER ENGINEERING

Metz, France

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## EDUCATION

### Bachelor's Degree – Computer Engineering

*In progress since September 2024*

*University of Sherbrooke, Canada*

### Preparatory Certificate for Undergraduate Programs

*Completed April 2024*

*University of Sherbrooke, Canada*

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## TECHNICAL SKILLS

### Computer science

- Languages : Python, Javascript, C#, SQL/PostgreSQL, Java, HTML / CSS, C/C++
- Tools : XML, Visual Studio, Git, Linux, Keycloak, Docker, React, Quarkus
- Methods : Agile (SCRUM), CI/CD, Jira, AMDEC, Gantt
- Embedded Systems: STM32, CubeMX, UART, USB, Arduino, JSON

### Languages

- French: Native (5/5)
- English: Advanced (4/5)
- Arabic: Native (5/5)

### Personal qualities

- Fast and adaptable learner
  - Creativity and innovative thinking
  - Sense of ethics and integrity
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## TECHNICAL PROJECTS

### Student Mentoring Platform

*Summer 2025*

- Design a web application to facilitate mentoring between students using a client-server architecture, deployed in a containerized environment.
- Develop APIs and web pages, ensuring integration between backend and frontend.
- Technologies: Keycloak, JavaScript, Quarkus, HTML/CSS, Java, PostgreSQL, Docker

### Embedded System for Rocket

*In progress since September 2024*

- Develop a real-time UART/USB communication module for telemetry data collection in an STM32 system, integrated into embedded code.
- Flight simulation software programmed in Python.
- Technologies: Python, STM32, CubeMX, C, HAL

## TECHNICAL PROJECTS (CONTINUED)

### Assistant Robot

Fall 2024

- Build a mobile robot programmed to identify and collect clothes by color while avoiding obstacles.
- Technologies: Arduino, C++, LCD, JSON

### Interactive Game with GUI

Winter 2025

- Develop a 2048-like game, integrating game logic and a custom user interface.
- Technologies: C++, Qt, JSON

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## PROFESSIONAL EXPERIENCE

### Computer Technician – Geek Squad

2023-2024

*Best Buy, Sherbrooke*

- Diagnose and resolved hardware and software issues on various electronic devices.
- Repair diverse electronic components.
- Provide technical assistance to clients.
- Implement data recovery solutions for customers.

### Home Respiratory Equipment Technician

2019-2020

*ISIS MEDICAL, France*

- Promote a welcoming and professional environment for patients.
- Provide patients with follow-up summaries and care plans.
- Troubleshoot and solve technical equipment issues reported by patients.
- Educate patients about treatment benefits and therapeutic use.

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## INVOLVEMENT

### Volunteer at Medical Congress

2020-2021

*Les Rencontres Médicales Grand Est, France*

- Provide logistical support for the organization and management of the congress.
- Ensure successful presentations by handling technical issues.
- Manage IT systems.