Masa El-Soufi

📞 438-630-1969 ✉ masaelsoufi@gmail.com in www.linkedin.com/in/masa-el-soufi-98b6b1249

Education

McGill University **Sep. 2024 – May 2028**
Bachelor of Engineering in Electrical Engineering *Montreal, QC*

Relevant Coursework

- Electrical Circuits
- Intro to Programming
- Software Development
- Design Principles
- Power Engineering
- Electronics
- Digital Logic
- Signals and Systems

Experience

Black & McDonald — Pierre Brossard Division **May 2025 – August 2025**
Testing and Project Management Intern *Brossard, QC*

- Conducted technical analyses (sunlight, soil, spacing) and compliance testing for Québec's first dynamic parking sign project (C$6M).
- Coordinated across project managers and subcontractors to ensure timelines, quality standards, and regulatory compliance
- Produced data-driven recommendations improving system placement and reliability for stakeholder decision-making.
- Performed compliance testing and reporting for the City of Brossard's C$500K streetlight pole replacement project.

Oxford Learning Centres Inc. **Jan. 2026 – Present**
Tutor in French, Math and Science *Brossard, QC*

- Tutor students as young as the age of 5 in French, English and Sciences
- Assign homework to the students with relevance to what they are learning in school
- Help students in understanding their school subjects and aid in their homework.

Projects

Search and Rescue Robot (ECSE 211 Class) | *Python, BrickPi, Git, Project Management* **Jan 2025 – April 2025**

- Developed a semi-autonomous robot designed to navigate a room, detect fire sources via color sensors all while avoiding obstacles.
- Led the testing and calibration phase for all hardware components, ensuring high-efficiency performance of motors and sensor-data accuracy.
- Managed project timelines using Gantt charts and technical progress reports to ensure all design milestones were met on schedule.

The Factory Website | *CMS, Git/GitHub, Strapi, Vercel* **January 2026 – Present**

- Maintaining and updating the official website for McGill's student-run hardware lab, ensuring accurate information.
- Managing site content through a CMS, including the synchronization of office hours for General Managers and lab operational schedules.
- Utilizing GitHub for version control and collaborative deployment, ensuring site stability during iterative content updates.

Technical Skills

Languages: Python, Java, VHDL, Latex, MATLAB
Developer Tools: VS Code, IntelliJ, Google Cloud
Technologies/Frameworks: GitHub, Microsoft Office

Leadership / Extracurricular

McGill Robotics — Autonomous Underwater Vehicle Team **Sep. 2024 – Present**
Electrical Subdivision Member *Montreal, QC*

- Designed and tested a USB-to-UART power board for AUV peripheral systems through Altium and integrated a system kill-switch.
- Modified display board for touch-enabled dry testing immediately form the screen, improving system integration workflows.
- Collaborated with software team members to test the new DVL and collect data from it.

The Factory at McGill **Sep. 2025 – Present**
General Manager *McGill University*

- Hold weekly office hours assisting students with soldering, 3D printing, PCB building, and safe equipment usage.
- Organize yearly hardware hackathon and provide help to students during the competition.