

MARCELO PEDROZA HERNANDEZ

Email: marcelopedrozah@gmail.com | Phone: +1(514) · 929 · 6966 | LinkedIn: [linkedin.com/in/marceloph](https://www.linkedin.com/in/marceloph)
Github: github.com/phmarcel0x

Summary

Versatile Software Engineering and Machine Learning enthusiast with hands-on experience in project management, web and app development, and data science. Proven ability to deliver innovative solutions through coursework, personal projects, and a successful internship. Adept at leveraging technical and interpersonal skills to drive impactful contributions in tech-driven dynamic teams.

Education

Concordia University

BEng, Computer Engineering (Penultimate Year)

2021-2026 (Expected)

Montreal, QC

- Relevant Courses: Data Structures and Algorithms, Software Practices, Probability and Statistics, Machine Learning and Neural Computing, Artificial Intelligence, Digital Systems Design I & II (x86 Assembly).

Experience

Pratt & Whitney Canada - Internship

Development Engineering Supervisor

September - December 2023

Engine Centre Plant 01, Longueuil, QC

- Supervised a team of 48 unionized employees, ensuring compliance with health and safety standards in the factory.
- Facilitated communication between technicians and management, aligning development goals with client demands.
- Developed a real-time engine-tracking dashboard to improve managerial visibility of assembly lines and implemented VBA and Python scripts to streamline administrative tasks, enhancing efficiency by 300%.

Space Concordia Rocketry Division (SCRD) - Starsailor

Subsystem Lead: Despin

May 2022 - Present

Concordia University, Montreal, QC

- Leading the team responsible for integrating a passive attitude control system into Starsailor.
- Overseeing the complete lifecycle of the despin system, from design to manufacturing, assembly, and testing.
- Consistently meeting critical deadlines using Agile methodologies.

Gina Cody Entrepreneurship Society (GCES)

Director of Innovation

April 2024 - Present

Concordia University, Montreal, QC

- Managing the Innovation Fund, facilitating financial support and commercialization for innovative student projects.
- Organizing the annual Entrepreneur Talks, inviting industry leaders to share insights and engaging the student community in entrepreneurial discussions.
- Mentoring student entrepreneurs, providing strategic guidance and promoting the Innovation Fund to increase awareness and participation.

Concordia University Mini Capstone

Head of Development at 'MEDIPAPS'

Summer 2023

Concordia University, Montreal, QC

- Assumed the lead developer role for our team's 'MEDIMAPS' Android mobile app, enhancing my web/app development skills, leveraging SDKs for user interface design, data storage, and network communication.
- Demonstrated hardware integration proficiency with WiFi and GPS-enabled packaging systems and Firebase's RTDB.
- Designed user-friendly features, optimized the app for diverse user profiles, and gained experience in Agile framework-driven product design.

Skills

Technical | C/C++, Python (NumPy, pandas, SciPy), Java, JavaScript, HTML, CSS, Firebase, Linux, MATLAB, SQL, R, TensorFlow

Languages | English, French, Spanish

Management | Technical Leadership, Health & Safety, Communication, Agile Framework, Git