MARCELO PEDROZA HERNANDEZ

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Summary

Versatile Computer Engineering student with a strong foundation in software development, machine learning, and product management. Proven ability to lead cross-functional teams, manage projects end-to-end, and deliver data-driven solutions. Passionate about building products that solve complex problems at the intersection of data and AI, with a keen interest in leveraging data insights for strategic decision-making.

Education

Concordia University   2021–2026 (Expected)

BEng, Computer Engineering   Montreal, QC
- Relevant Courses: Data Structures and Algorithms, Software Engineering and DevOps, Engineering Statistics, Machine Learning and Neural Computing, Artificial Intelligence, Digital Systems Design I & II (x86 Assembly).
- Winter 2024: Semester abroad at the *University of Hertfordshire, London, UK.*

Experience

Pratt & Whitney Canada - Internship   September - December 2023

Development Engineering Supervisor   Engine Centre Plant 01, Longueuil, QC
- Managed cross-functional communication to align technical goals with client demands.
- Led the development of a real-time engine-tracking dashboard, enhancing managerial visibility of assembly lines.
- Streamlined administrative processes with VBA and Python, resulting in a 300% efficiency boost.
- Supervised a team of 48 unionized employees, ensuring compliance with health and safety standards in the factory.

Gina Cody Entrepreneurship Society (GCES)   April 2024 - Present

Director of Innovation   Concordia University, Montreal, QC
- Overseeing a $50k Innovation Fund, driving product innovation and commercialization for student projects.
- Leading the organization of our annual Entrepreneur Talks, connecting industry leaders with the student community.
- Providing mentorship and strategic guidance to emerging entrepreneurs.

Space Concordia Rocketry Division (SCRD) - Starsailor   May 2022 - Present

Subsystem Lead: Despin   Concordia University, Montreal, QC
- Spearheading the integration of a passive attitude control system into Starsailor, our current, largest-ever endeavor.
- Overseeing the complete lifecycle of the despin system, from design to manufacturing, assembly, and testing.
- Consistently meeting critical design review deadlines using Agile methodologies.

Concordia University Mini Capstone   Summer 2023

Head of Development at 'MEDIPAPS'   Concordia University, Montreal, QC
- Led the development of the 'MEDIMAPS' Android app, focusing on user experience and technical integration.
- Collaborated with the team to optimize product features, ensuring a seamless experience across diverse user profiles.
- Gained practical experience in Agile-driven product design and hardware integration.

Skills

Technical | SQL, Python, C/C++, Java, JavaScript, HTML, CSS, Firebase, Linux, MATLAB, R, TensorFlow, API Integration
Analytical | Data-driven Decision Making, User & Market Research, Product & System Design
Management | Product & Project Management, Cross-functional Technical Leadership, Agile Frameworks