MARCELO PEDROZA HERNANDEZ

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

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Management | Product & Project Management, Cross-functional Technical Leadership, Agile Frameworks