ALBERTO FABIAN SOSA MIRANDA

https://github.com/fabiansm5

16 Morisot Ave, Vaughan, ON L4J 9H4

(+1)647 551 5649 ⋄ fabiansm1964@gmail.com

EDUCATION

Queen's University *September 2019 - April 2024*

BASc Electrical Engineering

University of Edinburgh *Jan - May 2022*

Semester Abroad

EXPERIENCE

Aumintec *August 2024 - October 2024*
Control Engineering

Developed the firmware and control for five stepper motors in a STM32 chip

Assisted the electronic hardware engineer with component selection. schematic capture and PCB layout

Developed PCBs for thermal electric coolers

Developed the harness in wireviz for the liquid handling robot

Performed calibration testing to improve the signal to noise ratio of an optical machine

Freeport-McMoRan *June 2022 - August 2022*
Process Automation Engineering

Programmed a Rockwell PLC for an HVAC system and performed a dynamic test on an HMI screen.

Programmed a Rockwell PLC for range-finding lasers.

Transition the company's software to PlantPAx Distributed Control System

Read Schematics drawings

TECHNICAL SKILLS

Language	C, C sharp, Python, MATLAB, SQL, Ladder Logic, Assembly Language
Software	Jupyter Notebook, Altium Designer, RSLogix 5000, Studio 5000 View Designer, Git
Software	LTSpice, STM32Cube IDE

EXTRACURRICULAR EXPERIENCE

QMIND - Researcher *Sep 2021 - Feb 2022*

ProjectX aims to tackle urgent issues in a five-month -long machine learning research competition hosted by the university of Toronto.

Winner of the 2021 A.I ProjectX competition – genetics cohort with my work 'geneDRAGNN – gene Disease Prioritazation using graph neural networks'