ALESSANDRA GUERINONI

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SKILLS

Technical Languages:	Python	Java	C++	Haskell	HTML	CSS	JavaScript	MATLAB	VBA	Verilog	Latex	SQL
Software & Libraries:	CAD Inventor 2017	Simulink	Circuit Simulation (LTSpice)	Microsoft Office	Quartus Prime Design Software	React	Node.js
Related Courses:	Data Structures & Algorithms	Programming Principles	Operating Systems	Databases	Linear Optimization	Analog & Digital Circuits
Spoken Languages :	English (Native)	Spanish (Native)	French (Intermediate)

EDUCATION

BACHELOR OF ENGINEERING – MECHATRONICS ENGINEERING /*McMaster University*
SEPT 2016 – APR 2022

- Achieving **3.9 GPA** on 4.0 scale.
- Received **Golden Key Award** for students in Engineering with cumulative GPA **in top 15% of the faculty**.
- Received **future leader recognition award** for students who have shown exemplary work during their co-op term.
- Received **Dean's Honour List** 2019,2021 (minimum of 9.5 GPA on at least 27 units).
- Received **McMaster's Faculty of Engineering Entrance Award**, given to students with a minimum of 3.9 GPA.

WORK EXPERIENCE

PROJECT MANAGER & GOVERNANCE ADMINISTRATOR /*Bombardier, Mitsubishi Heavy Industries.*
MAY 2019 – AUG 2020

- **Organized** and chaired monthly meetings with the Senior Director and management, providing status updates on critical projects.
- **Managed** over **50 projects**. Ensured budget and project schedule adherence, and the corresponding reporting and escalation to management. *Technologies used: Lotus Notes Project Management Software.*
- Created python–oracle adaptation module to enhance workplace efficiency. The module allowed for easy access to Oracle databases, directly through python. *Technologies used: Python, Oracle.*

LEAD COORDINATOR UNIVERSITY COLLABORATION TEAM /*Bombardier, Mitsubishi Heavy Industries*
SEPT 2019 – AUG 2020

- Primary point of contact between the company and universities, **supervising** a team of 6 in charge of university collaboration.
- Collaborated with managers, HR, IT, Universities, and students, hiring **26 new interns.**
- Successfully **reduced overhead by 2%** by renegotiating contracts with McMaster, Ryerson, and the University of Toronto. These savings were further distributed by rate increases to student interns.

TEACHING ASSISTANT – DISCRETE MATHEMATICS & COMPUTATIONAL THINKING /*McMaster Faculty of Engineering*
JAN 2019 – APRIL 2019 & SEPT 2021 – DEC 2021

- Used problem solving to solidify over **50 student's** understanding of course criteria, specifically by using **Haskell Functional Programming** & **Computer Science** concepts. *Technologies used: Haskell, Visual Studio Code, Git, Latex.*
- Consulted with students, marked assignments, and prepared two weekly tutorial presentations, leading to class **averages: 70% and 87%.**

VENTURE CAMP COUNSELLOR /*McMaster Faculty of Engineering*
APR 2018 – SEPT 2018

- Introduced Software Engineering concepts to over **250 children**. Created projects which involved **Python, Arduinos, and web development** to help assist the student's understanding.
- Developed and Presented lectures across Hamilton, introducing **S.T.E.M concepts** to over **100 students.**

ACHIEVEMENTS

TRIAUTO – CAPSTONE PROJECT /*McMaster*
SEPT 2021 – PRESENT

- Working with a team of four in developing a **fully automated, technically efficient**, triage system, designed to enhance and simplify manual processes in a hospital's urgent care standard routine. *Technologies Used: React, Node.js, mySQL, SocketIO.*
- **Backend / frontend developer**, integrating relational patient databases and user interface, connected via backend server.

CACAO HUSK TEA – TEA BUSINESS /*Calientico, Piseral Inc*
AUG 2021 – PRESENT

- **Strengthened business acumen** by founding a Cacao Husk Tea business, selling tea, ethnically sourced from Peru.
- Conducted market research/analysis, and managed the financial operations, estimating a **31% profit margin.** *Technologies Used: Excel.*

LIT GIRLS GUEST SPEAKER – LEADERSHIP TRAINING PROGRAM /*Blue Jays Care*
MAY 2021

- **Inspired over 50 young women** to reflect on Engineering as a career path.

OUTFUEL FUEL EXPENSE SOFTWARE APPLICATION – COURSE PROJECT /*McMaster*
JAN 2018 – APR 2018

- **Lead a team of 5** in developing an economic fuel expense tool for consumers.
- Created the idea for the fuel expense tool. ***Used java programming, Eclipse IDE, and J-Unit testing to develop app.***