



# ALESSANDRA GUERINONI

Mechatronics Engineer

## INFO



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Milton, Ontario

## ACADEMIC BACKGROUND

### MCMaster UNIVERSITY

**B.ENG: MECHATRONICS ENGINEERING**  
EXPECTED 04/2022

**GPA: 3.9**

Golden Key International Honours

Society | 2021

Future Leader Recognition Award | 2021

Dean's List | 2019, 2021

McMaster Honours Award | 2016

#### Relevant Courses:

Data Structures & Algorithms

Programming Principles

Analog & Digital Circuits

Operating Systems

Embedded Systems

Databases

Linear Optimization

## TECHNICAL SKILLS

C, C++, Java, Python

Object-Oriented Design

Algorithm design

Complexity Analysis

SQL & Relational Databases

HTML, CSS, Javascript

Haskell

Visual Basic for Applications

Matlab, Simulink

Cad Inventor 2017

Circuit Simulation Software (LTspice)

Quartus Prime FPGA Design Software

Microsoft Office

## LANGUAGES

English [Native Speaking Proficiency] Spanish

[Native Speaking Proficiency]

French [Limited Working Proficiency]

## WORK EXPERIENCE

### FOUNDER - CACAO HUSK TEA

*Calientico - Piserai Inc | (September/2021 - Present )*

- Developed **strong business acumen** through the journey of founding/building a business
- Demonstrated **exceptional communication** by collaborating with international personnel
- Managed and oversaw marketing and financial operations enhancing **managerial capabilities**

### TEACHING ASSISTANT - DISCRETE MATHEMATICS & COMPUTATIONAL THINKING

*McMaster Faculty of Engineering | (Jan/2019 - Apr/2019, Sept/2021 - Present )*

- Ability to communicate** fundamental Haskell Programming concepts to students
- Exhibited excellent **technical and non-technical communication skills** by ensuring over 50 students understand Haskell Programming concepts.

### STUDENT COORDINATOR & UNIVERSITY COLLABORATION LEAD

*Bombardier / Mitsubishi Heavy Industries | Sept/2019-Aug/2020*

- Developed **leadership skills** supervising the student coordination team across the Aftermarket department
- Improved upon my **conflict resolution skills** by handling ambiguous and undefined problems through the management of the student recruitment process
- Created relationships with various Universities, showcasing **exceptional interpersonal skills**

### PROJECT MANAGER & GOVERNANCE ADMINISTRATOR

*Bombardier / Mitsubishi Heavy Industries | May/2019-Aug/2020*

- Fundamental contributor to the merging of De Havilland Aircraft of Canada Limited & Mitsubishi Heavy Industries (MHI) showcasing **exceptional project management abilities**
- Strengthened **organizational skills** by managing monthly progress reviews with managers and directors
- Supported the departmental budgeting activities through **multitasking capabilities**

### VENTURE ENGINEERING CAMP COUNSELLOR

*McMaster Faculty of Engineering | Apr/2018- Sept/2018*

- Developed **organizational skills** teaching Software Engineering concepts to over 250 children
- Held lectures across Hamilton, introducing S.T.E.M concepts to over 100 students improving my **performance held under pressure**

## PROJECT EXPERIENCE

### LIT GIRLS GUEST SPEAKER, LEADERSHIP TRAINING PROGRAM

*Blue Jays Virtual Zoom Meeting | May/2021*

- Inspired young women to reflect on Engineering as a career path effectively improving my **public speaking capabilities**

### OUTFUEL, FUEL EXPENSE TOOL

*McMaster Faculty of Engineering | Jan 2018 - Apr/2018*

- Strong reasoning and teamwork skills** shown when leading a team of 5 in developing an economic fuel expense tool to serve consumers
- Technical skills** developed using Java programming, Eclipse IDE, and J-unit testing

### MACCHANGERS, ASSOCIATION

*McMaster Engineering & Management Society | Sept 2017- Apr/2018*

- Developed research project promoting accessibility for bus users through a web app communicating feedback to HSR
- Presented project results in front of the Dean of Engineering and Community Stakeholders