

# Alexander Gorgi

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## SKILLS

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### Electrical Tools:

- Oscilloscope
- Power Systems
- Signal Processing

### Software/Hardware:

- MATLAB
- C
- Python
- MS Office
- Excel, Word, PPT
- Quanser
- PartSim
- Java
- Pspice
- LTspice
- Waveforms
- Simulink
- Keil (basic)
- EMTP Works
- SAP (basic)

### Other:

- Strong time-management skills
- Articulate, compliant, patient and trustworthy.

## PROJECTS

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### DC Servo Motor Design 2021

- Designed a DC servo motor using FEMM to test characteristics of Motor using MATLAB.
- Created MATLAB script via LuaScript to simulate the motor characteristics.

### Automatic Guitar Tuner 2021 - Now

- Assisted in design of bandpass filter.
- Assisted in programming arduino to work with motor.
- Built physical filter circuit.
- Assisted in coding C for FFT algorithm to detect frequencies.
- www.stayntune.ca

## HOBBIES

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- Guitar, Basketball, Comics

## HIGHLIGHTS OF QUALIFICATIONS

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- Knowledge in Python, C, Java in regards object oriented programming
- A-letter grades in Principles of Programming and Data Structures and Algorithms
- Proficient with Microsoft Excel, Access, PowerPoint, Word & Google equivalents
- Passion for technology, specifically PC's but everything else as well

## EDUCATION

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### Bachelor of Engineering, Electrical Engineering

McMaster University, Hamilton ON

Expected Completion:

**April 2023**

- Enrolled in level 4 of the 4-year Electrical Engineering co-op program
- Applied object oriented programming concepts and techniques, and demonstrated ability to program in **C**, **Java** and **Python** to specifications during programming labs
- Designed logic based circuits through **Quartus**, and **Keil uVision**.
- Demonstrated circuit theory by implementing and analyzing circuits during the circuitry labs using **Pspice** and **LTspice**.
- Excellent written and verbal communication skills developed through teamwork experience.
- Life-long learner always eager for a challenge and new material to take on.

## RELEVANT EXPERIENCE

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### Seasonal Renewals Assistant

May 2020 – August 2020 & May 2021 - August 2021

Home Trust, Toronto ON

- Organized and edited various Excel Spreadsheets to assist in information gathering for senior officers.
- Used SAP and TechComm on the regular to gather/edit information.

### Engineering Studies Student

Jan 2022 – (Expected) May 2022

Independent Electricity System Operator, Mississauga ON

- Created, organized, and edited various Excel Spreadsheets to assist in projects for lead and assessment engineers.
- Used VSAT and PSAT for Power System Fault Studies and Analysis.
- Regularly edited the Access database to keep project information up-to-date
- Updated Engineering Training Website using WebTool and HTML/CSS/JavaScript
- Automated Connection Assessment Processes using VBA and Excel Macros

## ACCOMPLISHMENTS

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- COMPENG 2SH4 - Principles of Programming received a letter grade of A-
- MATH 1ZC3 - Linear Algebra received a letter grade of A
- ELEC 2CJ4 - Circuits and Systems received a letter grade of A-
- ELEC 3TP3 - Signals and Systems received a letter grade of A

## EXTRACURRICULAR ACTIVITIES

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### Guitarist

2012 – Present

- Able to play both acoustic and electric guitar at an intermediate level in a variety of styles.