

Education

- Polytechnique Montreal** 2020 –
Master's of Electrical Engineering in Control Systems
- McGill University** 2014 – 2018
Major in Electrical Engineering
Core member of McGill Formula Electric
Exchange Semester at TU-Berlin
3.24/4 GPA

Curious, seeker of challenges, lover of design, interdisciplinary, web creator and musical instrument inventor. I am pursuing a masters in control systems and looking for an opportunity to contribute with the boundary pushers of the world. I am confident that I will bring talent and creativity to your projects.

Work Experience

- Logi-Labs** 2019 - 2020
Integration Consultant
Pivotal Spring Boot training
IBM IIB training
SoftwareAG WebMethods training
Migration of IIB services and Websphere MQ for CN
Migration of IS and MWS SoftwareAG windows servers for Videotron
Wrote Batch, Powershell and Python scripts to accelerate SoftwareAG migrations
- Koomi** 2018
Worked under COO in Business Intelligence
Built IT systems to optimize operations
Built integrations between databases and Excel to facilitate customer support and build reports
Built Excel tables to help administration, analyse turnover rates and find KPIs
Wrote Python scripts to automate daily tasks
Wrote Python scripts to assist calls made by the sales team and help manage potential leads
Designed architecture of Hubspot tools to accelerate pipeline from onboarding to fulfilment

Skills

Spoken Languages	English French Excellent Communication Skills
Programming Languages	Java C PL/SQL HTML5/CSS3/JS jQuery Python MatLab PSpice x86 Assembly
Software Proficiencies	OrCad Capture LTspice Altera Quartus Siemens NX Microsoft SQL Server Oracle Designer Oracle Virtualbox Eclipse Microsoft Visual Studio Git Adobe Photoshop Adobe Dreamweaver Adobe Premiere Pro Suite Microsoft Office HubSpot
Platforms and Environments	WebMethods IIB Spring Boot AngularJS Ionic Firebase Windows Server Linux

Awards

- Antje Graube Pryor Award** McGill University
Scholarship attributed to engineering students with a passion for international studies and cultural exchanges
- Mobility Award** McGill University
Scholarship for students on exchange with high academic standing
- Academic Standing Award** TU-Berlin
Award given to for high academic standing
- Dean's List** Marianopolis College
Award for graduating Marianopolis College with distinguished academic standings

Projects

- **Passenger Airplane Linear Control System** *2020*
Implemented pole placement and eigen structure placement control techniques for both longitudinal and lateral modes. Designed stability augmentation systems and implemented actuator dynamics for specific cruise condition
- **CubeSat Non-Linear Control System** *2020*
Implemented sliding mode control and feedback linearization for non-linear CubeSat model. Simulated orbit and analyse perturbation rejection of both control schemes
- **CubeSat Solar Panel** *2018*
Designed solar panels SEPIC charging circuit for a 1U cube satellite in conjunction with the McGill Space Group. Designed boost and buck-boost converter and simulated orbit using LTspice and Simulink.
- **Inverted Pendulum** *2018*
Implemented a PID, Pole Placement and LQR controller using MatLab Simulink to balance inverted pendulum
- **Blackjack Game** *2017*
Using the Altera DE1 board and Altera Quartus FPGA, created a fully functional human vs computer dealer game of blackjack
- **McGill EV Website** *2015*
Created website for the McGill EV formula electric design team
- **Robot LeJOS** *2014*
Designed a leJOS robot running on Java to localize in a grid, navigate an unknown maze and shoot ping-pong balls at targets given before a run
- **Musical Glove** *2012*
Using the Arduino Uno board, developed a glove that played notes and switched octaves when touching your thumb to parts of your finger

Hobbies

Graphic and web design
Arduino projects
Electronic tinkering
Piano
Guitar
Cooking
Fermentation
Canoe camping
Ice Hockey
Volleyball
Swimming

