

# DANIEL BORTOLUSSI

[LinkedIn](#) - [Website](#) - [GitHub](#)

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## HIGHLIGHTS OF QUALIFICATIONS AND SKILLS

- Expected graduate of the Mechatronics Engineering and Management Co-op Program at McMaster University
- Communication skills honed through work in high stress collaborative environments
- Experience in various positions within a diverse set of industries
- Languages: English and Conversational French
- Programming: Experienced with Python, C, C++, Java, Android development, SQLite, JSON parsing, API integration, HTML, CSS, Git/Github management, UI/UX
- Modeling/Simulation: Experienced with Quartus Prime (FPGA design and manipulation), Matlab, Simulink, CAD software (Autodesk Inventor, Draftsight), Maple, Maplesim, and Multisim

## EDUCATION

**Bachelor of Engineering, Mechatronics and Management**

Expected April 2021

McMaster University, Hamilton, ON

GPA 3.9/4.0

## EXPERIENCE

### INDEPENDENT PROJECTS

After being laid off due to the Covid pandemic, the following projects were started and published.

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#### TEXAS METHOD TRACKER - ANDROID APP [\(GOOGLE PLAY STORE\)](#)

This was my first published android app. The app is used to keep track of workouts following the famous Texas Method, and plan for the proper progression from week to week. The app is designed to be as simple and user friendly as possible. Skills that I learned from creating this app include: android development fundamentals and libraries, java, creating and using databases in SQLite, XML, and publishing with the Google Play Console.

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#### SIMPLIFIED WEATHER - ANDROID APP [\(GOOGLE PLAY STORE\)](#)

The goal of this app was to create the most practical weather app for my use. The app fetches weather data from Accuweather's APIs for your location for the next 12 hours. Based on the data received, it tells you if you need a sweater, jacket, boots, or an umbrella. Skills that I learned from creating this app: REST API integration, JSON parsing, location services, Google admob, and icon creation.

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#### PERSONAL PORTFOLIO WEBSITE [\(LINK\)](#)

This was the first website I ever created. I made it to showcase my skills and qualifications in a unique way. It was a lot of fun to learn new skills to put it together. Skills that I learned from creating this website: HTML, CSS, Git/Github, web development fundamentals, and UX/UI design.

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## WORK PROJECTS

- Specified the requirements for the introduction of a new avionic system to an airplane (De Havilland). The system would utilize the outputs of various other avionic systems through ARINC 429 data busses as well as other discrete and analog signals.
- Implemented a change in bolts used in production that would generate large cost savings (General Motors). This change required tremendous amounts of communication across different departments.

## WORK EXPERIENCE

### **Engineering Student - Dash 8-400 Avionics and Electrical**

May 2019 - April 2020

Bombardier/De Havilland Aircraft of Canada Limited (Contracted by McMaster University), Toronto, ON

- Familiarized myself with ICAO and EASA regulations and specified requirements for an Autonomous Distress Tracking (ADT) system to be introduced on the aircraft
- Created Design Change Proposals (DCPs) to replace antennas used on the aircraft with compatible and more durable replacements
- Coordinated work between engineering specialists from different fields through the use of an internal coordination memo

### **Production Group Leader (Supervisor)**

May 2018 - Sept 2018

General Motors, Oshawa, ON

- Interacted and communicated effectively with various professionals (engineers, electricians, accountants, etc) to coordinate projects being implemented on the production floor
- Managed employees, and worked constructively to resolve issues in a unionized environment
- Helped to streamline production by troubleshooting and finding the root cause of defects created on trucks
- Constructed concise and useful end of shift reports to communicate issues and accomplishments to coworkers outside the Oshawa plant and in different departments

### **Mechanical Engineering Student**

May 2017 - Sept 2017

WestRock, Guelph, Ontario

- Worked with CAD software to design and update technical documents, electrical drawings, and plant layouts
- Created preventative maintenance manuals that were easy to follow
- Learned how to implement a problem-solving board and the E3 protocol when solving a problem so it is documented and easily referenced

**REFERENCES AVAILABLE UPON REQUEST**