

# Daniel Bortolussi

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## **Highlights of Qualifications**

- Enrolled in the Mechatronics Engineering and Management Co-op Program, McMaster University
- Excellent communication and collaboration skills developed through work experiences
- Fortunate to have worked in an extensive number of positions within various industries while studies were completed

## **Education**

### **Bachelor of Engineering, Mechatronics and Management**

Expected April 2021

McMaster University, Hamilton, ON

- Currently in Level 4 of a five year program
- Registered in Mechatronics Engineering and Management program
- Registered in Co-op program
- Awarded \$1000 McMaster Honour Award entrance scholarship for an average between 90-94.99% upon graduating high school

## **Project Work**

- Specified requirements needed to introduce a new avionic system to an airplane (De Havilland). The system would interface with the outputs of various other 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.
- Got quotes for, and met with contractors to maintain the company owned (WestRock) parking lot
- Worked to create an apple cutter to satisfy the needs of an elderly woman with no use of her right arm (received A)
- Demonstrated good communication and organizational skills while working effectively in a team of five to satisfy the requirements of a client

### **Ontario Secondary School Diploma**

Graduated June 2015

St. Francis Xavier Secondary School, Mississauga, ON

- Graduated from International Baccalaureate Program with honours (2015)

## **Experience**

### **Work Experience**

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

June 2019 - April 2020

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

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- Specified requirements for an Autonomous Distress Tracking (ADT) system to be introduced on the aircraft
- Familiarized myself with ICAO and EASA regulations relevant to the ADT project
- 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
- Wrote a program change request (PCR) for an ongoing project

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

May 2019 - June 2019

Bombardier (Contracted by McMaster University), Toronto, ON

- Familiarized myself with aircraft avionics and electrical systems present on the Dash8-400 airplane
- Familiarized myself with ICAO and EASA regulations relevant to autonomous distress tracking

## **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
- Used timekeeping software to ensure employees were paid properly
- 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 and plant layouts
- Created and updated preventative maintenance manuals to make them easier to follow
- Created procedures to be used by maintenance staff
- Worked with an online inventory management and work order system (JD Edwards and Integrity)
- Created electrical drawings
- Added pictures to online inventory system to make it easier to navigate and distinguish between parts
- Learned how to implement a problem solving board and the E3 protocol when solving a problem so it is documented and easily referenced

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## **Lifeguard**

July 2016 - Sept 2016

Pool People Limited, Mississauga, Ontario

- Ensured the safety of all swimmers and bystanders
- Ensure there is a safe and sanitary environment in the workplace (pool)
- Practice knowledge of first aid when necessary
- Teach people of all ages swimming techniques

## **Summerizer**

May 2016 - July 2016

Pool People Limited

- Drain, clean, and fill pools for use in the summer
- Paint pools for use in the summer
- Ensure proper use of equipment
- Work efficiently within a set time frame
- Work safely and effectively with a partner, and without supervision

## **Umpire**

2010 - 2015

Mississauga North Baseball Association, Mississauga, Ontario

- Responsible for officiating the game
- Responsible for upholding/enforcing the rules
- Develop good communication with my partner and coaches/parents

## **Volunteer Experience**

### **Volunteer Karate Instructor**

Summer 2013 - Present

City of Mississauga, Mississauga, Ontario

- Responsible for correcting the techniques of students
- Developed good communications with my sensei (teacher) and the students

### **Junior Instructor**

June 2014 - July 2014

Erin Meadows Community Centre (City of Mississauga), Mississauga, Ontario

- Responsible for helping the instructor and students to correct swimming abilities
- Developing a good relationship with the instructor and staff
- Learning techniques to teach and communicate with students

## **Skills**

Language

- English (verbal and written) and Conversational French (verbal and written)

Productivity

- Proficient with Microsoft Word, Excel, PowerPoint, and Outlook

Programming and Modeling/Simulation

- Proficient in Python, C, Matlab, Simulink, CAD software (Autodesk Inventor, Draftsight), Maple, Maplesim, and Multisim

**REFERENCES AVAILABLE UPON REQUEST**