

# **ISAAC BALDWIN**

778-388-4469

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## **HIGHLIGHTS**

- Well rounded professional with over 3 years in Engineering, Project Management, Process Improvement, Manufacturing, and Marketing across various industries including aviation, defense, automotive, and telecommunication
  - Selected by Honda Canada executives, based on proven engineering and project management leadership, to present Innovation and Expansion Project to North America leadership team at annual Honda Technical Exchange event to discuss possible savings of over \$2M per year
  - Graduating with Deans Honor List and Professional Internship
  - Strong relationship building skills coupled with the power to influence and promote change across all levels of an organization
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## **EDUCATION**

***B.E.Sc. Mechanical and Materials Engineering /w Professional Internship***  
Western University, London, Ontario

**2013– 2018**

## **PROFESSIONAL EXPERIENCE**

***Mechanical Engineering Intern, Engine Department***  
Honda of Canada Manufacturing, Alliston, Ontario

**2016-2017**

- Presented innovation and expansion projects to President of Honda Canada resulting in >\$2MM/y in cost savings
- Managed high performing teams in the design and modification of various automation systems >\$250k
- Selected by President of Honda Canada to present technical innovation in World Technical Exchange
- Interconnected, worked, and lead within department to ensure compatibility with various groups
- Used Mitsubishi PLC, Cognex Insight, and G-code for Automated Systems

***Western Formula SAE Racing Team, Cooling System Lead***  
The University of Western Ontario, London, Ontario

**2015-2016**

- Designed new, effective cooling system for 2015-2016 race car (Solidworks)
- Produced and ran tests to verify positive changes to the system
- Communicated effectively with team to ensure compatibility with various systems
- Managed time efficiently in order to remain on schedule for completion of vehicle

***Design Engineering Team (Co-op)***

**2015**

Diamond Aircraft Industries Inc., London, Ontario

- Used CATIA V5 to draft composite and metal aircraft parts, subassemblies and assemblies for production
- Presented drafts to VP Engineering to ensure model was fully captured
- Partnered with production area to ensure engineering drafts were up to specifications
- Worked in production area laying up and producing parts

***Technical Marketing Representative***

**2014**

Heliproductions Industries Ltd., Vancouver, British Columbia

- Created entire platform for sales of new design
- Effective knowledge of product hardware, wiring, and system functions
- Communicated effectively with directors of maintenance and managers across Canada and the US

***Marketing Consultant***

**2014**

The Acquisition Group, Burnaby, British Columbia

- Interacted daily with clients and customers in a professional manner
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- Submitted sales and paper work in a tidy, organized manner
- Underwent extensive sales, marketing, leadership and management training
- Responsible for the motivation, training, and function of a team

## **ACADEMIC PROJECTS**

### ***Fourth Year Capstone Design Project***

**2017-2018**

- Designed to scale a two-stage industrial compressed air system for 3<sup>rd</sup> Year Thermodynamics course
- Completed thermodynamic study of prototype system and sub systems, selection of all key components, concept manufacturing, and creation of laboratory
- Developed a system to be used by a lab to study the thermodynamic effects of a compressor system as well as a parametric study for industrial optimization

### ***Mechatronics Systems Design***

**2017**

- Designed semi-autonomous robotic vehicle capable of searching for, finding, and collecting targets hidden in a virtual environment (Placed 1<sup>st</sup> in Class Competition)
- Developed coding of various sub systems (powertrain, collection system, identification system)
- Created prototype vehicle, design analysis of arms and components for load capacity and failure

### ***SolidWorks Final Design Project***

**2015**

- Detailed Design of concept using Solidworks CAD modelling program
- Used Microsoft Office Applications to complete progress reports as well as scheduling and time management reports
- Utilized Concept selection techniques to rate the best concepts generated based on specified objectives and constraints

## **SKILLS**

### **Experienced in**

- Microsoft Office Suite
- SolidWorks CAD Software (CSWA & CSWP-S Certified)
- CATIA V5 Drafting
- Cognex Dataman
- MS Project & MS Access
- SAP (Purchasing & Receiving)

### **Proficient in**

- C & C++ Programing
- AutoCAD
- Cognex Insight
- G-Code
- MATLAB Computing language
- Mitsubishi PLC
- Wiring and Soldering
- CATIA V5 CAD

## **LEADERSHIP AND VOLUNTEER EXPERIENCE**

### ***Post-Secondary Games Vice-Chair (Sports Logistics)***

- Managed and Organized all sports events
- Provided rules, schedules, equipment, officials and referees for all sports
- Ensured a safe, conflict free, and respectful environment.

### ***Engineers Without Borders***

- Participated in projects such as Kenyan outreach, Pumpkin Drop, and various other events to raise funds for countries and communities in need around the world

### ***Business Club***

- Participated in a virtual stock market to understand the basics of stocks and macroeconomics.
- Discussed marketing and finance with regards to businesses and entrepreneurship

### ***Free the Children / Me to We Club***

- Project coordinator of the 2013 Halloween for Hunger event in Port Coquitlam BC, which brought together over a thousand volunteers who collected 2,300 pounds of food for Free the Children and the local community.