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# NATHAN GOODFELLOW

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## EDUCATION

Bachelor of Applied Science – University of Toronto 2017

Mechanical Engineering, *Minors in Mechatronics & Engineering Business*

- Varsity Blues Track & Field Team (2 Years)
- Formula SAE Racing Team (3 Years)

Welding & Basic Machining Courses – George Brown College Fall 2014

## TECHNICAL SKILLS

CAD & Analysis Software: Solidworks, Solid Edge, ANSYS

Machining Experience: Lathe, Mill, TIG Welding, MIG Welding

Programming: C, C#, MATLAB

Applications: MS Office, SAP

## EXPERIENCE

Mechanical Engineering EIT | *Lincoln Electric* Jan 2018 - Present

Previously: Mechanical Engineering Intern | *Lincoln Electric* Jun 2015 - Sep 2016

- Produce mechanical design work for one of the company's upcoming product lines and subsequently integrate the new product into the company's manufacturing line
- Collaborate closely with managers of the QA and production departments to ensure that engineering-related changes to a product's design are being properly implemented at the manufacturing level
- Develop component and assembly-level production drawings in accordance with GD&T best practices
- Fabricate manufacturing fixtures in the company's on-site machine shop using traditional machining and sheet metal forming processes
- Facilitated the master CAD model of one of the company's new DC generator-based ground power units, as it entered its alpha and beta prototype phases – this included making necessary changes based on process-related tolerancing, new hardware implementation, ease of assembly, etc.

Electrical & Braking Systems Lead Engineer | *Univ. of Toronto Formula SAE Racing* Jul 2014 - Aug 2017

- Lead and managed other Formula SAE team members in the design and production of the vehicle's electrical and braking systems, while facilitating simultaneous knowledge transfer to junior members
- Conceptualized, produced and tested the vehicle's pedal assembly, brake rotors, electrical harnesses, dashboard system, and other major electrical and braking system components (used Finite Element Analysis software, to verify the designed points of mechanical failure)
- Developed a live sensor readout and suspension setup monitoring system into the vehicle's dashboard - allowing the on-track engineers to measure the performance of the vehicle as related to the given setup
- Validated system design and suspension geometries using data acquisition software in conjunction with calibrated sensors installed throughout the vehicle
- Documented the component and system costs necessary to develop the vehicle on a feasible mass-production scale – a crucial consideration involved in the planning of the design's manufacturability
- Managed a shared CAD model management system during the vehicle's design stages using Solidworks 2016 along with cloud-based software – used to produce necessary assembly BOMS, as well as part and assembly drawings

(References Available Upon Request)