RYAN DUNN

174 Dornie Rd, Oakville, ON, CA • +1 (905) 599-1009 • ryandunn81@gmail.com

https://www.linkedin.com/in/ryandunn81/

PROFILE

I am a highly motivated and professional individual looking to obtain an engineer-in-training (EIT) position in a dynamic work place starting May 1st, 2018. I am very interested to explore different industries that apply technical and organizational skills.

EDUCATION

Dalhousie University, Halifax, NS

- Bachelor of Applied Science in Materials Engineering, (Graduated May 2017)
  - **Related Courses:** Industrial Safety & Loss Management, Company Operations & Management, Industrial Processes, Engineering Design, Mechanical & Physical Properties of Materials, Thermodynamics, Computational Methods, Heat Transfer.
  - **Computer Skills:** AutoCAD, SolidWorks, COMSOL, Matlab, Microsoft Office (VBA, Excel).

Oakville Trafalgar High School, Oakville, ON (June 2013)

- Ontario Scholar, Honours Graduate

EMPLOYMENT EXPERIENCES

3M Canada, London, ON

R&D Intern: Product Innovation Laboratory (June 2017 – [End Date] April 2018)

- **Research and Development:** Research based project on 3M nano-coatings that can be applied to applications in the electronics and battery industries. Data collection, analysis, SolidWorks, technical reports/presentations along with material characterization are frequently completed with an end goal to launch a new product platform for 3M Company.
- **New Product Innovations:** Currently have been listed as a co-investigator on two invention submissions, a 3M documentation to determine whether ideas become trade secrets or pending patents. Involved in product development meetings, University collaboration meetings and technical meetings from industry partners.
- **Technical Marketing:** Involved in the www.3m.ca/vhbextreme marketing tour. A prestigious engineering job position that requires technical and interpersonal skills. Filmed on live TV for Global News, Canada's third largest news network. Featured on two radio stations and three online articles for 3M Canada (Links can be found on LinkedIn page listed under biography).

University of Toronto, Toronto, ON

Smart Adaptive Polymers Laboratory Intern: (Summer 2016)

Worked in Prof. Naguib's lab under postdoctoral supervision

- **Research and Development:** Research based project on different metal-air batteries for wearable electronic applications.
- **New Product Innovations:** Research focused on the characterization of energy storage systems. Electrochemical corrosion and electron microscopy testing was used on Aluminum-Air and Zinc-Air batteries to improve and compare the respective discharge rates between materials.

University of Toronto, Toronto, ON

Microcellular Plastics Manufacturing Laboratory Intern: (Summer 2015)

Worked in Prof. Chul Park's lab under postdoctoral supervision.

- **Research and Development:** Joint industry project with Shawcor Ltd.
- **New Product Innovations:** Testing focused on polymers physical and mechanical properties under various thermally aged samples. New product will impact the advancement of pipeline coatings in the oil and gas industry.
- **Material Testing and Evaluation:** Supercritical CO_2 foaming, thermal conductivity, SEM, TEM, foam expansion ratio, open-cell gas content, FTIR – radiation.

Shawcor Ltd: Canusa-CPS, Toronto, ON

Engineering Summer Student – Pipeline Coatings: (Summer 2014)

Worked directly for Advanced Technology Manager of Canusa-CPS

- **Lab Work and Material Testing:** HSE training, OIT, DSC, Instron adhesion and tensile strength testing, grit blasting pipes, plastics and adhesive coating extrusion, electron beaming of pipe coating.
- **Customer Relations:** Assisted in hosting international customers including Gazprom and Shell, in order to get Canusa-CPS' product approved for sale for the South Stream oil and gas pipeline.
- **Global Petroleum Show 2014:** Calgary, Alberta
  Joined the Shawcor team in Calgary to network and understand the oil and gas industry.

RELEVANT PROJECTS

Dalhousie University Renewable Energy Society (Sept 2017)

- Student-run society with the main goal to create a tidal turbine to display for Dalhousie Engineering

Dalhousie University - Ecological Robot Design Project, First Place in Competition (Winter 2015)

- Used 3D printed materials to create microbial fuel cell and programmed a code to run the motor and steer the wheel in the proper direction when exposed to light.

VOLUNTEER INVOLVEMENT

Capstone Engineering Design Expo: Student Volunteer (April 2016)

- Set up all design posters for fourth year students, including sign in sheets and name tags.

Atlantic Engineering Competition: Director of Re-Engineering Competition (Jan 2015)

- Meet with Board of Directors, VP Competitions on bi-weekly basis to update on progress of creating case competitions for top engineering students from 7 universities across Atlantic Provinces.

Dalhousie University Residence Charity Hockey Game: (March 2014)

- Volunteer for Various Fundraisers, Raised $16,000 in Proceeds for IWK Children's Hospital Halifax.

ACTIVITIES & AWARDS

Canadian Engineering Competition – Consulting Competition (March 2016)

- Represented Dalhousie University at the Canadian finals against 40 other engineering students. Given a real life task where consulting firms involved were on the judging panel.

Atlantic Engineering Competition – Consulting Competition (2nd Place Finish) (Jan 2016)

- Compete in-group of 4 against top students across Atlantic Provinces given task with 8 hours to complete. Present to panel of judges from Canadian Space Agency.

Athletics:

- Avid hockey, tennis, soccer and golf player.
- Interest in International Travel.