

Tyler Hutchison

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Education

Bachelor of Engineering, Mechanical Engineering

2020

University of Guelph | Guelph, ON

Certificate of Electrical Engineering Technology

2016

St. Lawrence College | Kingston, ON

Experience

Insignis Energy Consulting | Remote | www.insignisenergy.com

April 2023 – Present

Partner

- Spearheaded the successful launch and growth of an energy consulting firm, establishing a reputable brand, and cultivating strong relationships with clients in the Sudbury area
- Identified and implemented energy improvement strategies in various residential building projects, resulting in substantial energy savings for clients and contributing to environmental sustainability
- Developed tailored financial plans for each project, utilizing in-depth knowledge of available rebate programs and CMHC financing options to maximize cost savings for clients while maintaining project quality and compliance

Castool Tooling Systems | Uxbridge, ON

January 2021 – December 2022

Mechanical Designer

- Developed the next generation of high-pressure extrusion tooling with validation from FEA simulation and trials, reducing tooling changeout downtime by 52%
- Improved thermal regulation of die sleeves over multiple designs, increasing heat dissipation by 6% and improving casting quality for better material handling by end user
- Inspected equipment for nonconformities and proposed corrective actions while minimizing impact to budget and schedule

Solar Wave Inc. | Guelph, ON

May 2019 – September 2020

Solar Technician

- Estimated energy availability, material, and labour costs and communicated system design and performance with clients
- Provided customer service to clients on-site and remotely, developing strong problem solving and communication skills
- Performed installation and repair of solar panels and troubleshooting of low voltage controllers

Array Marketing | Toronto, ON

June 2018 – September 2018

Engineering Intern

- Aided company transition to SolidWorks PDM and managed part inventory for manufacturing floor, enabling efficient part tracking and collaboration for thousands of products
- Created 3D models & 2D drawings of cosmetic product fixtures to support the design of in-store fixtures

Leadership

Great Northern Concrete Toboggan Race | Guelph, ON

September 2019 – April 2020

Team Captain

- Led a multidisciplinary engineering team to score the most event points since team inception
- Oversaw the design and construction of a 500lb, 5-person toboggan capable of withstanding a 5G impact using SolidWorks, FEA simulation, and machine shop techniques
- Ensured the future success of the team by organizing fundraisers, securing sponsorships, and leading technical workshops

Skills

Languages: English (native), French (fluent)

Software: Javascript, HTML, CSS, Python