

Adam Genno, C.E.T., EIT

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Objective

As a skilled mechanical engineering intern with experience in various industrial settings, I am eager to apply my expertise to the role of Mechanical Assistant Plant Engineer/Officer at OPG's Thunder Bay facility. With a proven track record in equipment maintenance and repair, safety compliance, and cross-functional collaboration, I am confident in my ability to contribute to OPG's mission of delivering clean, safe, and reliable energy to Ontario. Additionally, my background as an electrical engineering technologist provides me with a unique perspective and versatile skillset that I believe will be a valuable asset to the OPG team.

Work Experience

Engineering Project Manager

Dec. 2022 – Current

Honda of Canada Manufacturing, Welding Department (Alliston, Ontario)

- Designed and implemented an innovative in-line robotic deburring process, significantly reducing production downtime and potentially saving over \$200,000 annually.
- Successfully managed multiple engineering projects concurrently, with budgets exceeding \$100,000, from conceptualization to commissioning, ensuring adherence to project timelines and quality standards.
- Maintained comprehensive records of all engineering activities, enabling effective communication of lessons learned and contributing to the improvement of future project timelines and outcomes.

Research Assistant

Aug. 2020 – Sep. 2022

Lakehead University, Department of Mechanical Engineering (Thunder Bay, Ontario)

- Led the preliminary design and supervised a team of undergraduate mechanical engineering students for a probe-and-drogue aerial refueling system.
- Designed a novel algorithm for nonlinear neuro-fuzzy membership function parameter optimization, resulting in a 25% overshoot reduction in flexible structure control applications.
- Developed and tested an original dynamic output suppression technique for reducing 90% of control action-induced vibrations by a neuro-fuzzy controller.

Teaching Assistant

Sep. 2020 – Apr. 2022

Lakehead University, Department of Mechanical Engineering (Thunder Bay, Ontario)

- Prepared course materials for undergraduate mechanical engineering courses and conducted weekly tutorial sessions using hybrid teaching methods for classes of 40-100 students.
- Provided constructive feedback on assignments and exams, leading to improvements in student performance and engagement.

Student Tutor (Mechanical Engineering and Math)

Sep. 2018 – Jul. 2020

Lakehead University, Chancellor Patterson Library (Thunder Bay, Ontario)

- Tutored individual and group students to improve their understanding of mechanical engineering course concepts and prepared them for undergraduate course requirements.
- Developed and led a math skills boot camp for college-to-university summer transition students, preparing 25 incoming students for undergraduate courses.

Quality Engineering Associate (Internship)

June 2019 – Aug. 2019

Honda of Canada Manufacturing, Vehicle Quality Department (Alliston, Ontario)

- Proposed a dynamic vehicle ride-height correction method to reduce rear tow misalignment on the non-contact alignment tester.
- Implemented an internal PHSR tracking procedure with enhanced report generation capabilities, improving department efficiency.

- Optimized department software tools used for evaluating weekly production data metrics by removing redundant calculations and automatically generating production reports.

Machine Vision Technician

Jan. 2014 – Sep. 2018

Vista Solutions Inc. (Windsor, Ontario)

- Developed and updated existing industrial processes to incorporate machine vision inspection systems, reducing cycle time by up to 50%.
- Established standardized program specifications for robot-guided material handlers in picking and de-racking applications, reducing installation time requirements by six hours per robot.
- Spearheaded the development of an internal robot guidance training program for new employees, adapting the program for on-site use at customer facilities.

Project Engineer

May 2013 – Jan. 2014

Esys Automation (Auburn Hills, Michigan)

- Developed and debugged preliminary smart conveyor control logic, using RSLogix 5000 and FactoryTalk View Studio, reducing installation time on-site at customer facilities.
- Designed robot cell layouts, performing electrical load calculations and work envelope studies.
- Performed as-built design revisions to ensure accuracy of all drawings and service records.

Education

Master of Science, Mechanical Engineering

Sep. 2020 – Sep. 2022

Lakehead University (Thunder Bay, Ontario)

Bachelor of Engineering, Mechanical Engineering Minor, Mathematics

Sep. 2016 – May 2020

Lakehead University (Thunder Bay, Ontario)

Advanced Diploma, Electro-Mechanical Engineering Technology

Sep. 2010 – May 2013

Humber College (Etobicoke, Ontario)

Volunteer Work

Canadian Blood Services

2007 – Current

- Engaged the community as a donor and leader

Engineering Student Society

2017 – 2020

- Pioneered “Industry Night” event, which has connected local engineering businesses with Lakehead University graduates annually since conceptualization in 2017.
- Created and implemented a sponsorship funding package for new industry partners in the Thunder Bay area, expanding the scope of services offered to engineering students.
- Developed an open-access engineering class note reference database “Genno Notes” (<https://gennonotes.github.io/>).

Student Accessibility Services

2016 – 2020

- Provided note taking accommodations for students with additional academic considerations

Credentials, Awards, and Honours

Engineering Intern (EIT)

2020

- Successfully completed the national professional practice exam (NPPE) and eligible for registration as a P.Eng. with PEO upon completion of engineering work experience.

Iron Ring Ceremony Graduating Class Representative

2020

- Selected as a representative based on consistent academic and leadership achievements.

PEO Foundation for Education Undergraduate Student Award

2018

- Recognized for outstanding academic and leadership achievements.

Certified Engineering Technologist (C.E.T.)

2015

- Certified as an electrical engineering technologist.