Adam Genno, C.E.T., EIT

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Objective

As a mechanical engineering associate with a passion for design and problem-solving, I am excited to apply my skills and knowledge to the equipment engineering role at Honda's North American Auto Development Centre. With experience in both mechanical and electrical engineering, I am confident in my ability to collaborate with diverse teams and effectively communicate technical information. I have a strong understanding of WE and AF characteristics, and my proficiency in CATIA will enable me to perform equipment verifications and prepare innovative solutions for product change points. This opportunity aligns perfectly with my career goals, and I am eager to contribute to Honda's continued success.

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, with the potential for significant reduction of production downtime and possible savings of $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 **Sep. 2016 – May 2020**
Minor, Mathematics
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.