Adam Genno, C.E.T., EIT

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Skills

- Industry knowledge: robotics, automation, machine vision, machine learning, mechanical engineering, electrical engineering, troubleshooting, root cause analysis, programming, technical support, project management, budgeting, modeling and simulation, research, nonlinear control
- Tools & technologies: AutoCAD, Inventor, CATIA, SolidWorks, MATLAB, Microsoft Office
- Interpersonal skills: time management, leadership, teamwork, professional communication, customer service, high degree of initiative, employee training, mentoring, organization skills

Work Experience

Engineering Project Manager

Dec. 2022 - Current

Honda of Canada Manufacturing, Welding (Alliston, Ontario)

- Developed and benchmarked an innovative in-line robotic deburring process to address a significant source of production downtime, potentially saving over \$200,000 annually.
- Managed simultaneous engineering projects with budgets exceeding \$100,000, from initial conceptualization to final commissioning.
- Maintained good records of all engineering activities to ensure effective communication of lessons-learned and reduction similar future project timelines.

Research Assistant Aug. 2020 – Sep. 2022

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

- Lead the preliminary design of a probe-and-drogue aerial refueling system and supervised an undergraduate mechanical engineering student team during subsequent design iterations.
- Developed an original algorithm for the optimization of nonlinear neuro-fuzzy membership function parameters for flexible structure control, achieving 25% overshoot reduction.
- Proposed an original dynamic output suppression technique to reduce 90% of control actioninduced 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.
- Utilized hybrid teaching methods in weekly tutorial sessions for classes of 40-100 students
- Provided timely feedback on marked course materials and student questions.

Student Tutor (Mechanical Engineering and Math)

Sep. 2018 – Jul. 2020

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

- Tutored students individually and in groups to develop a better understanding of mechanical engineering course concepts.
- Lead the instruction of a math skills bootcamp for college-to-university summer transition students to prepare 25 incoming students for undergraduate course requirements.

Quality Engineering Associate (Internship)

June 2019 - Aug. 2019

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

- Proposed a dynamic vehicle ride-height correction method to reduce the prevalence of rear tow misalignment on the non-contact alignment tester (re: RATA alignment errors on NCAT).
- Implemented an internal PHSR tracking protocol with enhanced report generation capabilities.
- 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 autonomous industrial processes, or updated existing manual processes to incorporate machine vision inspection systems and improve cycle time by as much as 50%.
- Established a standardized program specification for robot-guided material handlers used in picking and de-racking applications, reducing installation time requirements by 6 hours per robot.
- Spearheaded the development of an internal robot guidance training program for new employees and adapted the program for use on-site 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 to reduce 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

Donor and leader in community engagement efforts

Engineering Student Society

2017 - 2020

- Established "Industry Night", which has connected local engineering businesses with Lakehead University graduates annually since conceptualization in 2017
- Constructed a sponsorship funding package to connect with new industry partners in the Thunder Bay area, and expand potential scope of services offered to engineering students
- Created the open-access engineering class note reference database "Genno Notes" (https://gennonotes.github.io/) -- which is still frequently referenced by OPG associates!

Student Accessibility Services

2016 - 2020

Provided note taking accommodations for students with additional academic considerations

Credentials, Awards, and Honours

Engineering Intern (EIT)

2020

• Completed the national professional practice exam (NPPE), and eligible for registration as a Professional Engineer (P. Eng.) with PEO after completion of engineering work experience

Iron Ring Ceremony Graduating Class Representative

2020

• Selected based on consistent academic and leadership achievements

Abitibi-Bowater Student Award

2019

Awarded for outstanding academic achievement

PEO Foundation for Education Undergraduate Student Award

2018

Awarded for outstanding academic and leadership achievements

Certified Engineering Technologist (C.E.T.)

2015

Certified electrical engineering technologist