

Bryan Chen

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AUTOMOTIVE ENGINEER, SUMMARY

Results-driven Automotive engineer with experience in CAD/CAM design, FEA/FEM analysis, and advanced vehicle systems development across both OEM and supplier environments. Skilled in leveraging NX and SolidWorks to drive design innovation and process improvement. Experienced in manufacturing engineering with practical knowledge of poka-yokes/ red rabbits, PFMEA development, and process optimization within unionized environments. Recognized for strong analytical thinking, collaboration, and communication skills that support high-quality, efficient engineering outcomes.

PROFESSIONAL EXPERIENCE

Gates Corporation

Sept 2025 – Nov 2025

Process engineer II

Windsor, Ontario

- Collaborated cross-functionally to ensure compliance with APQP for new and existing products
- Developed and optimized manufacturing methods and processes, integrating poka-yokes and process controls to improve production efficiency, consistency, and product quality.
- Support make-or-buy decisions, equipment selection, and facility layout planning for new products.
- Troubleshoot manufacturing issues, identified root causes, and drove corrective actions to minimize downtime.

Stellantis (RGBSI)

July 2022 – Present

ADAS Operations Engineer at Stellantis

Windsor, Ontario

- Support, analyze, and improve Advanced Driver Assistance Systems (ADAS) features at Stellantis
- Communicate, track, and resolve issues related with ADAS operations with suppliers and program management
- Assist with all related aspects of cradle to grave functional integration including, authoring specifications, sourcing documents, change management, cross functional team alignment, FMEAs, DVPRs, launch support and all related aspects of L2+ features

Bend-All Automotive

May 2019 – Dec 2019

Product Development Engineer Internship

Ayr, Ontario

- Researched and developed tools using Solidworks and NX 11 for new and existing products, tooling, and automation equipment for Crimping, Endforming, and Quality Assurance.
- Assisted in GD & T, modeling, and simulations for new and existing products such as engine oil cooling lines, power steering lines, bypass valves, HVAC tubes, turbocharger lubrication and bypass assemblies, heat exchangers and seating mechanisms and components.
- Completed testing and performance check design revisions to verify standards adherence.

Obtained experience and technical insight of engineering tasks and expectations during 8-month internship.

EDUCATION

Master of Business Administration, (MBA) (In Progress)

Sprott School of Business Carleton University, Ottawa, Ontario

Management and Change Concentration

Graduating Oct 2026

Bachelor of Engineering, Automotive Engineering

Ontario Tech University, Oshawa, Ontario

Graduated May 2022

- President's list Winter 2021

Electric Lawn Tractor Capstone *Oshawa, Ontario*

Sept 2021 – present

- Design and engineer an electric tractor conversion to convert ICE drivetrain to electric drivetrain
- Apply theoretical knowledge of previous courses to engineer and specify parts and design
- Build and test a prototype to meet desired standards and design needs
- Present and produce prototype demonstration and presentation to peers and faculty

OntarioTechU Racing Team *Oshawa, Ontario*

Jan 2020- April 2020

- Designed and built a formula-style electric race vehicle to compete in FSAE competition
- Used NX11 and SolidWorks CAD and FEA package to design and optimize suspension design
- FEA components and analyze the results to create design reports for competition
- Created drawings for various manufactures for custom parts and machine work
- Assisted in chassis development and aerodynamic when required

Driverless Delivery Vehicle Project *Oshawa, Ontario*

Sept 2018 – Dec 2018

- Used NX11 and Rhino 6 CAD software to design and model a Driverless Delivery Vehicle.
- Built small prototype with appropriate sensors to display proof of concept.
- Explored cost effective options to estimate cost and viability.
- Presented design to class to facilitate feedback and discussion.

QUALIFICATIONS, AWARDS, AND INTERESTS

America's Cutting-Edge CNC Machine Training Program, 2020

Mitsubishi Materials Material Removal Process Training, 2020

3D printed and donated over 5000 pieces of PPE during the 2020 pandemic

Designed and optimized 3D printed PPE designs for more efficient and faster manufacturing

Certified SolidWorks Associate (CSWA), Solidworks 2019

Employee of the Quarter (Starbucks Coffee Company) – Spring 2016

Top percentile for annual review of performance – Rona Millwork 2016

Chief Warrant Officer in the Royal Canadian Army Cadets (highest achievable rank as a cadet)

Outdoor Enthusiast (Over 500km of trail covered in Algonquin Park)

Restoring a 1991 BMW E30 at home garage

Home lab networking and DIY enthusiast

