Bryan Chen

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**JUNIOR PROFESSIONAL ENGINEER, SUMMARY**

* Experienced in CAD/CAM software with FEA/FEM knowledge (NX 11, SolidWorks, Rhino 6, NASTRAN)
* Experienced with QGIS and GIS software and tasks
* Experience in Advanced Driver Assistance Systems (ADAS) operations, design, and Vector CAN tools, CANalyzertroubleshooting CAN networks and devices
* Competent in MATLAB programing and basic C++
* Experienced user of Microsoft Office Suite (Word, PowerPoint, Excel, Outlook, Publisher)
* Strong people and communication skills demonstrated through years of customer service experience.
* Excellent critical thinking skills and able to work independently or collaborate to complete tasks

**PROFESSIONAL EXPERIENCE**

**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**

**Bachelor of Engineering, Automotive Engineering**

*Ontario Tech University, Oshawa, Ontario*  **Graduated May 2022**

* President’s list Winter 2021

**Relevant Courses*:***

Vehicle Dynamics,

Electric and Hybrid Vehicles,

Chassis Systems Design,

Automotive Structural Design,

Finite Element Methods,

Thermodynamics and Heat Transfer,

Advanced Materials Engineering,

Material Removal Techniques,

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**PROJECTS**

**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 created 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