

Oliver Chamoun

Kitchener, ON | 226-792-2111 | oliverchamoun@gmail.com | [LinkedIn](#) | [Portfolio Website](#)

SUMMARY

Skills: Computer Vision, Automotive Repair, Mechanical Assembly, Data Analysis, Production Optimization, Drone Piloting, Circuit Analysis, BST & AVL, RTOS, Machine Learning, DFM, DFA, GD&T

Software: C, C++, Python, Linux, Git, Autocad, Solidworks, PlotJuggler, OpenCV, MATLAB

Certifications: Solidworks Associate in Mechanical Design (CSWA), Drone Operation (RPAS), Red Cross First Aid

Interests, Sports & Languages: Chess, Piano, Rubik's cubes, Robots | Swimming, Ultimate, Calisthenics, Volleyball, Skiing, Cycling, Boxing | English, French, Arabic

WORK EXPERIENCE

Mitchell Plastics **Kitchener, ON**
Project Engineering Intern *Apr 2024 - Aug 2024*

- Managed the 2026 **Toyota Rav4** program, tracking 150+ issues and resolving them **25% faster** by optimizing use of the Open Issues with design engineers and manufacturing technicians.
- Led weekly cross-functional meetings with design, manufacturing, and quality teams, reducing communication delays by 30% and improving tool delivery timelines.
- Developed standardized documentation for **design changes** and tooling, cutting document retrieval time by 40% during process audits.
- Coordinated pre-production trials for new tooling and collaborated with vendors on DFM feedback for high-volume injection molding, achieving a 15% reduction in scrap rates and optimizing tool designs to reduce production cycle times by 20%.

Porsche **Beirut, LB**
Assistant Mechanic *Oct 2023 - Dec 2023*

- Conducted comprehensive diagnostics and repairs on **high-performance Porsche vehicles**, utilizing advanced equipment and software like PicoDiagnostics NVH kits to ensure **optimal performance** of engines, transmissions, and electrical systems.
- Specialized in Porsche **suspension systems** maintenance and repair, using techniques such as road force balancing and wheel alignment, resulting in **improved vehicle handling** and safety and a 50% increase in customer satisfaction ratings.
- Collaborated with senior mechanics to examine **engine systems** by identifying and locating issues with specific components, leading to **efficient repair** and maintenance services and improved vehicle performance.
- Acquired broad knowledge of **complex car parts** and automotive technologies like turbochargers, differentials and exhaust systems, resulting in the ability to provide the **best possible service** and a 30% reduction in repair costs for customers.

Skygauge Robotics (Drone Manufacturer) **Hamilton, ON**
Product Engineering Intern *Jan 2023 - Apr 2023*

- Updated testing procedures for drone components by implementing **new protocols** as well as **new R&D concepts**, resulting in a 20% increase in testing accuracy.
- Employed root cause analysis to investigate, troubleshoot and repair crashed drones while creating formalized work instructions, reducing repair time by 30% and saving the company \$10,000 annually.
- Successfully met production quarterly goals, exceeding previous quarter's targets by 200%, through implementing **efficient manufacturing processes**.
- Identified inefficiencies in production processes through **data analysis**, leading to the implementation of lean manufacturing practices and a 15% reduction in production costs as well as a 3 week **reduction in production time**.

PROJECT EXPERIENCE

University of Waterloo **Waterloo, ON**
The Atlas Sand Table *Nov 2022 - Dec 2022*

- Designed and developed a **mechatronic system** using EV3 hardware and software, integrating various sensors and motors to achieve precise control and movement of a magnet within a sand table. The system was able to read instructions from a text file, convert position values, and interact with the environment through human input and touch sensors. A detailed overview on the project is available [here](#).
- Additional projects, including Smart Hole Detector, Keychain and more, can be found [here](#).
- Created a **HIL system** for the UW Formula Electric design team.

ADDITIONAL EXPERIENCE

Candid Image & Lebanese Scouts Association **Beirut, LB**
Photographer & Videographer; Senior Patrol Leader *Jun 2019 - May 2022*

- Captured and edited 500+ event and portrait photographs using Adobe programs, delivering **high-quality images** that enhanced social media engagement.
- Organized and led weekly **training sessions** for 30+ scouts, focusing on teamwork, leadership, and survival skills, which improved group cohesion and proficiency.
- Managed logistics and safety for **50+ outdoor events** and hiking trips, coordinating schedules, and risk assessments to ensure a safe experience for all participants.

EDUCATION

University of Waterloo **Waterloo, ON, CN**
BASc in Honours Mechatronics Engineering (President's Scholarship of Distinction)