

Oliver Chamoun

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SUMMARY

Skills: Drone Piloting, Automotive Repair, Mechanical Assembly, Data Analysis, Production Optimization, Circuit Analysis, BST & AVL, Statics, Machine Learning, Computer Vision

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

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

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

EDUCATION

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

WORK EXPERIENCE

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

- Revamped testing procedures for drone components by implementing **new protocols** and equipment as well as **new R&D concepts**, resulting in a 20% increase in testing accuracy.
- Collaborated with engineering team to troubleshoot and **repair 50+ faulty drone components**, 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** and identifying areas for improvement.
- 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**.

Porsche **Beirut, LB**
Assistant Mechanic *Jun 2022 - Aug 2022*

- Conducted comprehensive diagnostics and **repairs** on high-performance Porsche vehicles, utilizing advanced equipment and software 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.

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 EXPERIENCE

Candid Image (Photography) **Beirut, LB**
Photographer & Videographer *Jun 2019 - May 2022*

- Captured candid and emotional moments throughout 100+ events by utilizing **high-quality photography** and videography equipment and techniques, resulting in a 98% **satisfaction rating** from clients.
- Collaborated with team members to provide **exceptional customer service** and create unique and personalized concepts for each client, resulting in a 20% increase in client referrals.

Lebanese Scouts Association **Beirut, LB**
Senior Patrol Leader *Sep 2019 - Jun 2022*

- Organized and led multiple patrols as the **top elected youth leader**, a role that included leading meetings, planning more than 45 events and camps.
- Led and coordinated the **volunteer's rescue mission** to help cleaning up the debris in Beirut after the explosion by dividing them into smaller groups and assigning them tasks, resulting in a more efficient and effective operation.
- Diversified my skill set by **earning 30+ merit badges** in a range of subject areas, including Information Technology, Mechanic and Public Speaking.