

Brielle Chenier

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SKILLS LIST

- **Mechanical Design:** Certified Solidworks Professional (CSWP), AutoCAD, 3D printing
- **Programming:** Python, C++, Java, HTML/CSS and Javascript
- **Soft Skills:** Leadership, Communication, Teamwork and Collaboration
- **Languages:** English and French

EXPERIENCE

Solar Car Mechanical Team Member

University of Waterloo Solar Car Design Team

Waterloo, ON

September 2020 - Present

- Designed tools to aide in manufacturing as well as a model car for sponsors in Solidworks
- Assembled carbon fiber and nomex to create layups for car structure and bottom panel
- Learned about engineering techniques for welding and built welding jigs for car main frame which will support 4 passengers

Team Captain, Robot Lead, and Outreach Lead

FIRST Robotics, Robototes Team 2412

Bellevue, USA

September 2016 - June 2020

- Led team meetings for 60 member team and oversaw 150lb robot build and integration, involved ordering all necessary parts and ensuring sub team leads effectively delegated tasks
- Designed 2019 climb system to lift robot 45cm using Solidworks and directed 10 team members to build and assemble, system was 80% effective at district competition, helping us become Quarter Finalists at the 2019 World Championships
- Planned and ran 30 STEM outreach events resulting in over 1,000 team volunteer hours per year, launched a robotics summer camp for students in grades 3-5 all of who had an increased interest in STEM after attending

Classroom Aide and Science Educator in Training

Pacific Science Center

Seattle, USA

Summer 2018, 2019

- Taught STEM lessons to students in grades K-8, topics included: programming, robotics, science and nature
- Increased communication skills by engaging struggling campers and enabling them to complete activities

PROJECTS

Package Pick Up System and Adjustable Camera Mount

Waterloo Aerial Robotics Group

September 2020 - Present

- Developed a 2 axis camera stabilizer for a GoPro to be used in Unmanned Systems Canada Competition
- Designed and fabricated a mechanism using servos and micro-controllers to pick up 4 in packages

Personal Website

briellechenier.com

March - July 2020

- Self-taught HTML, CSS, and JavaScript in order to create a personal website
- Raised money for local non profits by using website to sell homemade face masks

EDUCATION

University of Waterloo

Candidate for BASc in Mechatronics Engineering

EngSoc Winter 2021 Educational Outreach Director

2020-2025

ACHIEVEMENTS AND INTERESTS

- **Interests:** Basketball, Rock Climbing, and Music (Oboe and Flute)
- **Accomplishments:** Over 500 Volunteer Hours primarily in STEM Outreach, FIRST Robotics Dean's List Semi-Finalist, High School Engineering Faculty Award Winner