

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** **Waterloo, ON**
University of Waterloo Solar Car Design Team *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** **Bellevue, USA**
FIRST Robotics, Robototes Team 2412 *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** **Seattle, USA**
Pacific Science Center *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*
 - Designed and fabricated a mechanism using servos and micro-controllers to pick up 4 in packages
 - Developed a 2 axis camera stabilizer for a GoPro to be used in Unmanned Systems Canada Competition
 - Programmed an arduino controlled arm to teach new members about PID control and create an interactive onboarding
- **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 *2020-2025*
EngSoc Winter 2021 Educational Outreach Director

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