

Brielle Chenier

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SUMMARY OF QUALIFICATIONS

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

EXPERIENCE

- **Solar Car Mechanical Team Member** **Waterloo, ON**
University of Waterloo Solar Car Design Team *September 2020 - Present*
 - Assembled carbon fiber and Nomex to create layups for car structure and bottom panel
 - Built welding jigs for car main frame
 - Designed tools to aide in manufacturing and model car for sponsors in Solidworks
- **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, coordinated and oversaw 150lb robot build and integration
 - Designed 2019 climb system to lift robot 45cm using Solidworks and directed 10 team members to assemble system
 - Built a 3-stage cascading elevator to lift and stack milk crates up to 8 feet tall
 - Planned and ran over 30 STEM outreach events, launched a robotics summer camp for students in grades 3-5
 - Quarter finalist at 2019 World Championships
- **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*
 - 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 4in 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 *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