

Brielle Chenier

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SUMMARY OF QUALIFICATIONS

- **CAD:** Certified Solidworks Professional (CSWP), AutoCAD
- **Programming:** Java, HTML/CSS, C++, Arduino
- **Mechanical:** Experience with band saws, chop saws, laser cutters and 3D printing
- **Soft Skills:** Leadership, Communication and Team Work
- **Languages:** English and French

EXPERIENCE

- **Mechanical Team Member** **Waterloo, ON**
University of Waterloo Solar Car Design Team *September 2020 - Present*
 - Worked with carbon fiber composites to create layups and fabricate car bottom panel
 - Built welding jigs for car chassis
 - Designed tools to aide in manufacturing and model car for sponsorship in Solidworks
- **Team Captain and Outreach Lead** **Bellevue, USA**
FIRST Robotics, Team 2412 *September 2016 - June 2020*
 - Lead team meetings for 60 member team, coordinated and oversaw robot build and integration
 - Designed 2019 robot climb system in Solidworks and fabricated/assembled sheet metal for robot base
 - Organized over 30 STEM outreach events, including launching a robotics summer camp for 3rd-5th grade students
 - Qualified for the World Championships
- **Classroom Aide and Science Educator in Training** **Seattle, USA**
Pacific Science Center *Summer 2018, 2019*
 - Taught STEM lessons, 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** *September 2020 - Present*
Waterloo Aerial Robotics Group
 - Developed a 2 axis camera stabilizer for a GoPro, designed in Solidworks
 - Designed and fabricated a mechanism to pick up packages for Unmanned Systems Canada Competition
- **Website Development** *March - May 2020*
briellechenier.com
 - Self-taught HTML and CSS in order to create a personal website
 - Learned references, text formatting, styles and forms
 - Used webiste and form submissions to sell face masks and raise money for local non profits

EDUCATION

- **University of Waterloo** *2020-2025*
Candidate for BASc in Mechatronics Engineering

ACHIEVEMENTS AND INTERESTS

- **Interests:** Basketball, Rock Climbing, Music (Oboe and Flute), and Volunteering
- **Awards:** FIRST Robotics Dean's List Semi-Finalist, High School Engineering Faculty Award Winner