

# Brielle Chenier

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## SUMMARY OF QUALIFICATIONS

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

## EXPERIENCE

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- **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 grade 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

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- **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

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- **University of Waterloo**  
*Candidate for BASc in Mechatronics Engineering* *2020-2025*  
EngSoc Winter 2021 Educational Outreach Director

## ACHIEVEMENTS AND INTERESTS

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- **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