

# Brielle Chenier

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## SUMMARY OF QUALIFICATIONS

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- **Design:** Certified Solidworks Professional (CSWP), AutoCAD, 3D printing
- **Programming:** Python, C++, Java, HTML/CSS and Javascript
- **Soft Skills:** Leadership, Communication and Team Work
- **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*
  - 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, Robot Lead, and Outreach Lead** **Bellevue, USA**  
*FIRST Robotics, Team 2412* *September 2016 - June 2020*
  - Lead team meetings for 60 member team, coordinated and oversaw 150lb 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
  - Quarter finalist at 2019 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

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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, designed in Solidworks
  - Designed and fabricated a mechanism to pick up packages for Unmanned Systems Canada Competition
- **Website Development**  
*briellechenier.com* *March - May 2020*
  - Self-taught HTML and CSS in order to create a personal website
  - Learned references, text formatting, styles and forms
  - Raised money for local non profits by using website to sell home made 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, Music (Oboe and Flute), and STEM Outreach Volunteering
- **Awards:** FIRST Robotics Dean's List Semi-Finalist, High School Engineering Faculty Award Winner