

Ruthie Zhang

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SUMMARY

- Motivated engineering student with a huge interest in the biotechnology sector, eager to apply and expand my technical skills in a hands-on environment
- Strong collaborator with hackathon experience in fast paced, team based problem solving
- Recognized for resilience, initiative, and a people first mindset; committed to growth and helping others
- Technical skills: Python, C++, MATLAB, API integration, SolidWorks, data analysis

EXPERIENCE

Biomechatronics Design Team Mechanical Team Member	September 2025 - Present
<ul style="list-style-type: none">• Created detailed CAD models of mechanical components for a soft exoskeleton in SolidWorks• Collaborated with multidisciplinary team members to develop and refine design concepts for exoskeleton prototypes	
Candle Business – Founder & Operator	March 2021 - August 2025
<ul style="list-style-type: none">• Founded and operated an independent candle business, designing and producing products sold in retail stores, bulk orders, and to customers internationally• Developed and designed a custom website to showcase products, manage brand identity, and support online sales• Managed end-to-end operations including product development, marketing, and customer engagement• Sold over 500 candles, donated \$1,000 in profits to cancer research• Sponsored 3 cancer initiatives across Ontario• Featured on CBC	
Waterloo Region Youth Advisory Committee	September 2023 - August 2024
<ul style="list-style-type: none">• Participated in monthly regional meetings to collaborate on civic improvement projects• Contributed to the Charles Street Terminal revitalization project, providing youth perspective to shape regional initiatives.• Delivered presentations to Regional Staff, Regional Council, and community members, strengthening public speaking, communication, and leadership skills.• Actively represented youth voices, impacting policies affecting over 600,000 residents	
Hackathons	June 2023 - August 2024
<ul style="list-style-type: none">• Built ML models using TensorFlow and Python to solve real world challenges• Collaborated in teams to pitch and prototype solutions under time constraints• Developed website and Discord bot development using APIs	

EDUCATION

University of Waterloo — Bachelor of Applied Science Biomedical Engineering

Expected Graduation: April 2030

Courses: Biomedical Design, Calculus, Linear Algebra, Physics Statics and Dynamics, Chemistry, 3D Modeling

Clubs: Velocity Program, Biomechatronics Design Team, BME Society, Serve Volleyball Club

LANGUAGES

- English — Native, Proficient
- French — DELF B2
- Mandarin — Conversational