

ANNE JING

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Profile

Engineering Science student specializing in Machine Learning and minoring in Business Engineering and Robotics with practical experience in C, Python, MATLAB, Solidworks, and MS Office applications. Have created and lead teams in mechanical and biomedical engineering, data science, and wet chemistry.

Education

University of Toronto – St. George Campus, Toronto, ON

Bachelor of Applied Science in Engineering Science, 2019-2023 + PEY (Expected)

- Pursuing minors in Business Engineering and Robotics.
- Co-Ed and Women's Volleyball (2019-2020)
- UTBIOME – Computational Team Member (2020-present)

Assumption College School, Brantford, ON

Ontario Secondary School Diploma, 2015-2019

- 5 Advanced Placement classes; 96% overall average
- Student council and Prefect member (2015-2019)
- Jr. and Sr. Girls' Volleyball Captain (2016-2018), Jr. and Sr. Girl's Badminton MVP (2015-2017), Varsity Swimming (2016-2017).
- Schulich Leader Nominee

Certificates

- **CSWA – Mechanical Design**, Dassault Systèmes
- **Machine Learning**, Stanford University on Coursera
- **Diplôme d'études en langue française DELF B1**, Centre international d'études pédagogiques (CIEP)
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Relevant Courses

- **Machine Learning**, Stanford University
- **Computer Algorithms and Data Structures**, University of Toronto
- **Calculus I & II**, University of Toronto
- **Linear Algebra**, University of Toronto

Projects

SF Innovations Ventilator

Mechanical Engineer Lead, 2020

- Produced a fully automated, mostly 3D printed and DFM & DFA focused mechanical respirator using pressure differentials and a touchscreen GUI for emergency use.
- Designed all valves and actuators using CAD.

An Investigation into the Relationship Between Malarious Countries and COVID-19 Cases

Team Lead, 2020

- Used Pandas and Jupiter Notebook to create a machine learning model that predicted the relationship between malarious countries and COVID-19 cases.
- Entered in the STEM Fellowship Big Data Challenge 2020.

60Hours

Team Lead, Web developer, and Graphics designer, 2020

- Prototyped a high-fidelity mockup website and app using Figma.
- Created webpages designed for functionality and aesthetic.

Project ATTIS

Creator and Engineer, 2018-2019

- Created an assistive aid for Parkinson's patients to reduce resting tremors.

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- Won 1st place in the Biomedical Engineering category at the Intel International Science and Engineering Fair (over 1800+ participants) in Phoenix, USA.

The Hydrothermal Synthesis of Quantum Dots Using Gelatin

Creator and Researcher, 2017-2018

- Created a novel method on synthesizing carbon quantum dots at the University of Waterloo and the Canadian Centre for Electron Microscopy.
- Used electron microscopes and spectrophotometers to research carbon quantum dots.
- Published in the Canadian Science Fair Journal, 2018 Issue 1 Volume 1, 2018.

Professional Experience

UT BIOME, Toronto ON.

Project Team Member, 2020 – Present

- Member of the Computation division

Bay Area Science and Engineering Fair (BASEF), ON.

Student Advisor and Merit Judge, 2018-2020

- Assisted in planning the 2020 BASEF including providing feedback, organizing forms and souvenirs, and designing t-shirts.
- Judged 15+ projects in the Computer Engineering category.

StemPac, Brantford & Hamilton, ON.

Team Lead and Co-Founder, 2018-2020

- Went to elementary and high schools to give speeches about STEM and promote science fairs.
- Created a user-friendly guide to creating a science fair project for first-timers.
- Mentored science fair projects by giving ongoing feedback and providing presentation coaching.

Brantford International Villages, Brantford, ON.

Chinese Ambassador and MC, 2018-2020

- Wrote scripts and introduced performances and guests as an MC to 5000+ people.
- Won *Overall Ambassador*; judged on speech, information, and interview.
- Spoke about culture, politics, and laws about China and Italy to 100+ people.

Relay for Life, Brantford, ON.

Financial Leader, 2017-2019

- Handled cash in an organized manner and help coordinate a 1000+ participant and 2-day event.
- Give updates about budgets and fees during meetings.

American University in Bulgaria, Blagoevgrad Bulgaria.

Mathematics Researcher, 2019

- Studied advanced trigonometry and published paper on the Fuhrmann Triangle.

YMCA, Brantford, ON.

Lifeguard and Swim instructor, 2018-2019

- Ensured the safety of patrons and taught kids aged 2-12 swimming techniques.
- Regulated chemical output into the pool.

Tim Horton's, Brantford, ON.

Sales Team Member, 2018

- Versatile Team Member who worked in several stations, including drive thru.
- Served food and drinks to customers in an efficient manner.
- Conversated with customers and provided excellent customer service.
- Resolved misunderstandings and issues between staff and customers.
- Multitasked by preparing drinks, organizing money, and taking orders.
- Trained new recruits on various workstations.

Awards and Publications

- First Place Award at the Intel International Science and Engineering Fair (Phoenix, USA. 2019)
- University of Toronto Dean's Merit Award (Toronto, ON 2019)
- James Hillier Foundation Scholarship (Brantford, ON. 2019)
- Gold Merit Award at the Bay Area Science and Engineering Fair (Hamilton, ON 2018 and 2019)
- ArcelorMittal Dofasco Pinnacle Second Best in Fair (Hamilton, ON. 2019)

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- Professional Engineers of Ontario - Oakville Chapter Engineering Award (Hamilton, ON.2019)
- Doris Casey & Gwen Nicolls Disability Solutions Award (Hamilton, ON. 2019)
- Gowling WLG Innovation Award - Runner-up (Hamilton, ON. 2019)
- Hamilton Association da Vinci Award (Hamilton, ON. 2019)
- McMaster University Faculty of Engineering Award (Hamilton, ON. 2018 and 2019)
- Assumption College School Letter A Award (Brantford, ON.2019)
- OVA U18 Bronze (Waterloo, ON. 2018)
- The Hydrothermal Synthesis of Quantum Dots Using Gelatin (The Canadian Science Fair Journal, 2018 Issue 1 Volume 1, 2018)