

Mingde Yin

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EDUCATION

Bachelor of Applied Science, University of Toronto 2019 - 2024
BASc in Engineering Science, Aerospace Engineering 95% Average = 4.0 GPA

IB Diploma, Colonel By Secondary School 2015 - 2019
D.A. Moodie Award for highest average in Ottawa-Carleton District School Board 97.3% Average

EXPERIENCE

Orbit Subsystem Lead Mar 2020 - Present
University of Toronto Aerospace Design Team - Space Systems Division *Toronto, ON*

- Performed calculations and developed simulations to determine the orbit of a micro-satellite that will help combat climate change by the amount of carbon dioxide in Earth's atmosphere
- Led inclusion project to encourage a comfortable, inquiry-based engineering design environment, increasing actionable items in team meetings by **30%**

Student Researcher May 2020 - Aug 2020
Vutha Lab, Department of Physics, University of Toronto *Toronto, ON*

- Developed a magnetic field simulator for an atomic physics experiment, and optimized it to increase computation speed by **over 10x**
- Presented findings at research conference to an audience of over 90 industry experts and attendees

Marketing Director, National Board Apr 2018 - Present
SET Foundation *Ottawa, ON*

- Created marketing plan to attract **over 100 attendees** to SET Engineering Conference, which was founded to prepare students for careers in STEM (Science, Technology, Engineering, Mathematics), addressing crises such as climate change and digital security
- Created social media outreach content for virtual Hackathon, attracting **300 participants across the globe** and increasing turnout by **80%** in the first two weeks
- Held introductory programming workshop to teach programming fundamentals to over 50 new programmers

Lead Chess Instructor Sep 2015 - Apr 2019
Ottawa Public Library *Ottawa, ON*

- Conducted over 150 free weekly chess lessons, developing students' ability to think critically and strategically
- Received **Ontario Volunteer Distinction Award** for exceptional work in teaching chess using innovative strategies to increase student engagement

Language and Technology Instructor Jul 2015 - Oct 2015
OCCSC Senior Centre *Ottawa, ON*

- Provided free classes to newly landed senior citizen immigrants, teaching them vital skills for living in Canada

COMMUNITY LEADERSHIP

- Led multiple annual fundraisers for cancer research in cooperation with Relay for Life
- Created and led summer tutoring program at local library, preparing students from Grades 1 through 6 for the upcoming school year