

# LAWRENCE TSAI

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## EDUCATION

### University of Toronto - Trinity College

September 2020 - Present

Honours Bachelors of Science Candidate- Mathematics (Specialist-with Physics Applications), Computer Science (Minor), Chemistry (Minor)  
Toronto, ON, Canada

· **Relevant Coursework:** Computer Science: Math Expression & Reasoning for CS/Software Tools & Systems Programming Physics: Dark Matter & Energy/Practical Physics I/Elec & Mag/Classical Mech Math: Lin Alg I/Multivariable Calc w Proofs/ODEs/Complex Variables Chemistry: Analytical/Physical(Thermo & Quantum)/Inorg/Org Chemistry Other: Phil of Physics & Science, Human Physiology I, Latin I

· **Activities:** Trinity College Literary Institute Prime Minister, Amateur Astronomer's Society Vice President, Stephanos Yearbook Editor, Kappa Alpha Literary Society Vice President, Wallball and Dodgeball Captain, Food Advisory Committee Member

### Council Rock High School North

August 2016 - June 2020

Diploma with Distinguished Honour Roll

Newtown, PA, USA

GPA: 4.283/4.0 SAT: 1580/1600 ACT: 35/36 ASVAB: 97/100 AMC 8: 24/25

· **Relevant Coursework:** AP Bio & World History, Honours Experimental Research in STEM, Biochem (Delval Uni), Stat II (Bucks CC)  
· **Activities & Awards:** Future Business Leaders of America National Qualifier, Johns Hopkins Center for Talented Youth Member, Grade 11 Regional Top 3 in Atlantic Pacific Math Contest, AP Scholar with Distinction Award, Leader of Math OWlympiad Top 5 Team, National French Contest-Bronze, Bucks County World Language Competition-1st, Chemistry Club President, Track & Field Captain, Varsity Wrestler

## SKILLS AND INTERESTS

### Software Skills

Python, Java, MATLAB, Django, Docker, Figma, Ansys, Open CASCADE, IfcOpenShell  
Amigos (Friend Matching) Webapp (Java, Javascript, CSS, HTML, Figma, Linked)

### Certifications

Self Driving Cars 4-Course Specialization by the University of Toronto (in progress)

### Languages

English, Mandarin, Taiwanese, French (3 Years), Latin (Elementary), Spanish (Elementary)

### Art and Literature

Happy Collection (Completed 71-part abstract art), Pleasure and Torture (writing in progress)

### Hobbies

Chess, Pilot, Weightlifting, Music (Trumpet, Violin, Piano, Vocal), Outdoor Activities, Cooking

### Favourite Youtube Channels

3Blue1Brown, Crash Course, Kurzgesagt, Khan Academy, TED-Ed, Sciencephile, Aperture, exurb1a

## EXPERIENCE

### Promise Robotics

May 2022 - Present

Software Engineer

Edmonton, Alberta, Canada

4 month internship in software (Python, Django, Docker, Open CASCADE, IfcOpenShell, Databases), robotics, and CAD to create affordable and sustainable with applied Physics and machine learning.  
<https://promiserobotics.com/>

### Blue Sky Solar Racing

May 2021 - Present

Senior Technology Strategist

Toronto, ON, Canada

Conducting research, fabricating, creating parallel computed simulations (Matlab, Python, Ansys, CAD), & creating StratApp to optimize a solar car for American and World Solar Competitions. <http://blueskysolar.utoronto.ca/>

### University of Toronto Aerospace Team - Space Systems

May 2022 - Present

Optics Team Member

Toronto, ON, Canada

Numerical analysis (Python) and research for optics (holographic gratings) of our satellite payload.  
<https://www.utat.ca/space-systems> Github: <https://github.com/spacesys-finch>

### Felicity App

September 2020 - Present

Manager and Founding/First Member

Ontario, Canada

Non-profit of 160+ people developing a productivity app using expert's psych research. <https://www.felicityapp.org/>

### University of Toronto Applied Trading Club

August 2021 - Present

Co-President and Founder

Toronto, ON, Canada

Founded club of 140+ members to use machine learning and financial knowledge applied to stock & crypto trading

### PennyDrops

May 2021 - Present

Co-Founder and Vice President-Marketing

Toronto, ON, Canada

Co-founded a new chapter of PennyDrops at UofT, overseeing marketing for the biggest PennyDrops chapter that aims to cater to 30+ schools with 1,000+ students for accessible financial education. <https://www.pennydrops.org/>

### L & S Landscaping

March 2019 - Present

Chief Executive Officer and Founder

Lower Bucks County, PA, USA

Managed 25+ Employees, Five Figure Company, 100+ Customers in a 35 kilometer radius, Coordinating with other businesses, responsible for financials, quoting, marketing, and public relations. <https://ls-landscaping.business.site/>

### University of Toronto-Trinity College

September 2021 - Present

Academic Advisor

Toronto, ON, Canada

Coordinated academic events and aided students in Chem, Physics, & Math within a college of 1800+ students