

Jolie Lai

lai263@purdue.edu | <https://www.linkedin.com/in/jolielai/> | +1 (404) 916 5818

EDUCATION

Purdue University, College of Engineering

First Year Engineering

[3.77 / 4.00]

[Aug 2024 – May 2028]

Relevant Coursework

- MFET 16300: Graphical Communication & Spatial Analysis — prototyping CAD models using Siemens NX
- ENGR 13300: Transforming Ideas to Innovation I & II — analyzing data using Excel, MATLAB, and Python

Harrow International School Hong Kong

High School Diploma

[3.94 / 4.00]

[Sep 2022 – Jun 2024]

- Achieved A*A*A*B in A-level Mathematics, Further Mathematics, Physics, and Chemistry
- Achieved A in Extended Project Qualification on Artificial Intelligence in Medicine

EXPERIENCE

Purdue Electric Racing

Aerodynamics Sub-Team Member

[Aug 2024 – Present]

- Designing rear wing mounting and ribs for the 2025 vehicle
- Acquiring knowledge on CFD and FEA
- Assisting in making 10+ molds during manufacturing season through sanding and infusion layup

Purdue Aerial Robotics Team

Competition Airframe Sub-Team Member

[Aug 2024 – Present]

- Prototyping new fuselage with 5 other members
- Designed wing box for current plane model
- Teaming closely with mechanisms sub-team on landing gear

Engineering Harrovian

Head Editor for Aeronautical Engineering

[Jan 2023 – Mar 2024]

- Proofread and approved 10+ essays per semester
- Oversaw a team of 5 other editors
- Lectured members on biomimicry and aerodynamics

Hong Kong University of Science and Technology

Aerodynamics and Aeroacoustics Lab Intern

[Jul 2023 – Aug 2023]

- Engineered 8 aerodynamic models such as wind tunnels and vehicles
- Optimized 5*3D CAD Models using SolidWorks
- Increased lab productivity by 30% through assisting other members

Formula Square

Customer Service Intern

[Aug 2023]

- Served more than 200 customers per day at the ACGHK booth
- Planned more than 50% of educational material for STEM outreach events

TECHNICAL SKILLS

- **Languages:** Python, MATLAB
- **CAD:** SolidWorks, Siemens NX (Unigraphics), Fusion 360
- **Microsoft Office:** Word, Excel, Powerpoint