Rango Lee-Fu

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Education

University of Toronto – *Toronto, Canada* Sept 2025 – May 2030

BASc. in Industrial Engineering + Professional Experience Year (PEY)

Skills

Software: Microsoft Office, Google Workspace, SolidWorks, Ansys, LTSpice

Programming Languages: MATLAB, Python, HTML, CSS, JavaScript

Experience

Mechanical Team Member, *UofT Supermileage – Toronto, Canada* Sept. 2025 – Present

- Redesigned mechanical parts to integrate electrical components (battery and wiring), improving system reliability and accessibility.
- Developed a new sprocket system to optimize drivetrain efficiency, contributing to enhanced vehicle performance.
- Utilized SolidWorks for CAD modeling and Ansys for stress analysis, ensuring durability under race conditions.

Power Systems Team Member, *UofT Wind Turbine – Toronto, Canada* Sept. 2025 – Present

- Researched and engineered a custom electrical load (E-load) system from scratch using LTSpice and Altium Designer, introducing a new testing capability for the team.
- Collaborated on blade design and power system integration to maximize energy output under variable wind conditions.
- Conducted prototype assembly and troubleshooting, improving system efficiency and reliability.

Eye Care Consultant, *Specsavers Canada – Vancouver, Canada* March 2023 – Aug. 2025

- Performed preliminary eye exams using advanced diagnostic tools, improving patient care and workflow efficiency.
- Assisted customers with eyewear selection and repairs, contributing to weekly personal sales of $2,000 and team sales of $20,000.
- Trained new team members on store procedures and sales strategies, enhancing team performance.

Projects

Team Member, *APS111: High Park Accessible Pathway Project – Toronto, Canada* Sept. 2025 – Present

- Designed 750m accessible pathway through High Park's endangered Black Oak Savannah, achieving full AODA compliance while limiting environmental impact to <10% construction footprint
- Researched and applied Toronto accessibility standards, Tree Protection Policy, and Indigenous stewardship guidelines to establish design constraints
- Collaborated with team to generate 62 design concepts using SCAMPER methodology and multi-voting selection, narrowing to three alternative designs that balanced accessibility requirements with environmental preservation objectives

Activities & Societies

Deputy Returning Officer, *UofT Engineering Society – Toronto, Canada* Sept. 2025 – Present

- Managed the election process for student representatives, ensuring fairness and compliance with regulations.