

Rango Lee-Fu

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Education

University of Toronto – Toronto, Canada <i>BASc. in Industrial Engineering + Professional Experience Year (PEY)</i>	Sept 2025 – May 2030
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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
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- 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.
- Responsible for ongoing vehicle maintenance including assembly, installation of new components, and troubleshooting mechanical failures to maintain competition readiness

Power Systems Team Member, UofT Wind Turbine – Toronto, Canada	Sept. 2025 – Present
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- 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.
- Conducted circuit design and simulation in LTSpice to model electronic component behavior, optimizing load bank circuitry for thermal management and power dissipation before physical prototyping.
- Conducted prototype assembly and troubleshooting, improving system efficiency and reliability.

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

Outreach Director, EmpowerED NPO – Greater Toronto Area	Sept. 2024 – June 2025
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- Managed 12-member Outreach Team, coordinating multiple projects, setting deadlines, and building partnerships to provide STEM opportunities to female, BIPOC, and marginalized youth
- Secured sponsorships and partnerships supporting organizational initiatives, including 60+ free STEAM kits for GTA youth
- Collaborated across teams to coordinate coding workshops and engineering events at University of Waterloo, reaching 200+ youth

Projects

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

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.