

# Rango Lee-Fu

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## Education

**University of Toronto – Toronto, Canada**

Sept 2025 – May 2030

*BASc. in Mechanical 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.
- 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

- 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

- 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.
- Helped organize several community outreach programs promoting eye care services at local festivals and community centers, reaching 300+ potential clients

**Outreach Director, EmpowerED NPO – Greater Toronto Area**

Sept. 2024 – June 2025

- Managed 20-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

- 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

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### **Deputy Returning Officer, UofT Engineering Society – Toronto, Canada**

Sept. 2025 – Present

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

### **President, Hugh Boyd First Responder Team – Richmond, Canada**

Sept. 2021 – June 2025

- Completed 60+ hours of Standard First Aid, CPR-C, and First Responder certification training
- Led and trained team of 30+ members, organizing weekly practice scenarios and skills refresher sessions
- Responded to medical emergencies including sports injuries, allergic reactions, and seizures during school hours and external events
- Successfully advocated for district-wide AED and Naloxone kit implementation, providing input to school board action plan
- Recruited over a dozen new members through community engagement and effective outreach