

ADRIANA LEE

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SKILLS

Hardware

- 3D Printing
- Laser Cutting
- Mechanical and software prototyping
- Breadboarding
- Soldering
- Machine tools

Software

- SolidWorks
- AutoCAD
- Android Studio
- Microsoft Office
- Adobe Illustrator & Photoshop
- Bluebeam Revu
- Revizto
- Revit

Coding

- C++
- Java Script
- Java
- Python
- MATLAB

Languages

- English - professionally fluent
- Spanish - fluent

Engineering Work Experience

PowerTech Labs - BC Hydro

Sept. 2024 - Aug. 2025

Manufacturing Co op Student

- Designed and reviewed Hydrogen fuelling station mechanical subsystems.
- Created and communicated shop drawings for manufacturing.
- Constructed the SolidWorks design library with over 500 parts for efficient hydrogen station design.
- Researched and ordered high-value and critical components.

Smith + Andersen (Vancouver)

Jan. - Sept. 2023

Jr. Mechanical Designer

- Designed and reviewed numerous mechanical drawings in Revit, Bluebeam, and Revizto.
- Revised the HVAC, fire protection, water/IV, and storm drainage systems in the New St. Paul's Hospital Project.
- Communicated and resolved design issues with team members.
- Utilized Excel and Bluebeam to calculate storm load and fixture pricing.
- Communicated with partnered firms and client for Furring and Chasing Requests.

Technical Projects

Electric Braille Tablet

Mar. 2024

Team Lead - Competition Submission

SFU Applied Science

- Organized and led a team of 3 over the course of a month to ideate and prototype our product.
- Used 3D printing, electromagnetic coils, and a machine learning algorithm to create a braille cell that can display a character that was written on screen.
- Successfully won both Audience Choice Award and the Top Prize.

Electric Race Car Frame Jig

Jan. 2023 - Aug. 2025

Project Lead

Team Phantom

- Designed an effective system to brace frame tubing to be welded at precise angles.
- Used SolidWorks to model the full system.
- Manufactured the jig using laser cutting and 3D printing.

Microcontroller-Based Fan

Dec. 2023

Collaborative Project

SFU MSE

- Created a 8051 microcontroller-based project to control a fan and display the real RPM.
- Used programming language C to create a feedback control which self-corrected speed.

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MEMBERSHIPS & CLUBS

Team Phantom Frame and Aero Team

Nov. 2021 - Aug. 2025

- Designed integral parts of an electric car to improve on current models.
- Improved mechanical designs by performing simulated stress analysis.
- Researched material selection to improve cost, eco-footprint, and performance.
- Performed laser cutting and helped design the frame jig.

Mechatronic Systems Student Society

Nov. 2020 - June 2025

- Elected leader of a team of year representatives to solve issues amongst students of MSE.
- Provided a feedback loop for student body on academia or program information.
- Attended meetings on behalf of students to create notable change in MSE.
- Communicates with organizations and companies to create partnered events.

CONFERENCES & PROFESSIONAL DEVELOPMENT

SFU Basics of Machine Tools

Aug. 2024

- Completed an intensive 4 day course involving hands on experience with precision machining and measuring
- Learned to use bandsaws, mills, lathes, drills, metal sheet cutters and benders to make precise pieces.

SFU Agritech BootCamp

Apr. 2024

- Completed an intensive 6 day course revolving around the use of robotics and machine learning in agriculture.
- Presented on my work on Machine Learning in Agriculture.

Conference for Sustainable Engineering

Feb. 2021 & Feb. 2024

- Participated in lectures and workshops revolving around sustainable practices in engineering currently being implemented, mainly in the construction industry.
- Attended workshops to build on leadership and communication skills.
- Learned about the key building requirements as conveyed by ASHRAE.

HONOURS & AWARDS

Dean's Honour Roll

Aug. 2025

- Awarded for maintaining a TGPA above 3.5

MSE Equity, Diversity, and Inclusion Champion Award

Sept. 2023 & 2024

- Awarded for promoting diversity and inclusion within the community

SFU Inspiring Women in Applied Science Award

Sept. 2023

- Awarded for maintaining a high GPA while pursuing prominent positions within the community.

MSE Leadership Award

Sept. 2023

- Awarded for exuding strong characteristics of leadership within the community

Canada Company Bursary

Aug. 2021

- Awarded for great leadership and teamwork within the National Cadet Advisory Committee.

EDUCATION

BASc: Mechatronic Systems Engineering

Sept. 2020 - Aug. 2025

- *Simon Fraser University Surrey*