

Simran Bansal

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EDUCATION

University of Alberta

BSc Computer Engineering

Aug 2023 - Apr 2027

Edmonton, AB

PROJECTS AND CLUBS

FSAE - UAlberta Formula Racing | *AutoCAD, KiCAD, SolidWorks, 3D Printing*

May - Aug 2025

- Contributed to the High and Low Voltage Electrical team by assisting in system planning for an EV race car, using KiCAD and SolidWorks to develop schematics and layouts that meet FSAE requirements.
- Collaborated with team members in technical meetings and workshops, applying shared knowledge to enhance battery management system designs for safety and performance.
- Proactively expanded technical skills by seeking mentorship, studying standards, and engaging in hands on projects to improve contributions to design and fabrication phases.

Engineering Design Project | *TinkerCAD, PuraSlicer, SketchUp, Excel, PowerPoint*

Jan - Apr 2024

- Led a team of 4 engineers to redesigned and create a refined model of the Edmonton bus shelter design from scratch within a provided budget.
- Designed and produced multiple 3D models using TinkerCAD and PuraSlicer, translating digital concepts into a physical prototype.
- Took initiative by regularly holding meetings by contacting and keeping up to date with each subdivision and individual engineer to ensure requirements set are achieved within timely manner.
- Lead speaker in presenting the design project to an audience of over 200 individuals, achieving an overall perfect 100% project score marking presentation, project design and team cooperation.

PillPal Award Winner(HackED Beta) | *HTML/CSS, BootStrap, C++, node.js, express.js*

Nov 2024

- Enhanced medication automation for elderly users by designing a pill-dispensing system that delivered scheduled doses, audio-visual reminders, and alerts, improving medication adherence.
- Developed an accessible front-end interface, implementing an easy to navigate UI by adding elements like active/hover state for buttons and text boxes using HTML/CSS, enhancing accessibility for all users.
- Optimized both hardware and software integration by programming a Raspberry Pi Pico H, ensuring reliable dispensing and real-time monitoring.
- Won the DivE Accessibility Category in a competition with over 100 participants, recognized for innovation and user centered design.

JOB EXPERIENCE

Group Leader

Sep 2025 - Jan 2026

General Motors

Oshawa, ON

- Leading a cross-functional team of 36 operators on the assembly line, achieving adherence to daily production targets by coordinating work assignments, and resolving line disruptions in real time.
- Developed and implemented a process improvement to the securing bit, enabling task to be completed by one operator instead of two, improving labor efficiency without compromising quality or safety.
- Acting as the primary point of contact for a unionized workforce, improving shift efficiency by fostering open communication, addressing concerns promptly, and aligning team priorities with production goals.

Project Manager

May 2023 - Aug 2025

Student Works

Edmonton, AB

- Coordinated multiple painting crews by monitoring progress and providing timely updates to ensure consistently meeting project milestones ahead of schedule.
- Boosted crew performance by effectively communicating deadlines and progression, ensuring better final product whilst reducing cost by 20% from improved delivery times.
- Improved resource allocation by planning and leading projects, assigning each painter according to their strengths, which resulted in significantly reduced downtime and higher team morale.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript, HTML/CSS, VHDL, VB

Frameworks: React, Node.js, Next.js, JQuery, tkinter

Tools: Git, Linux, Microsoft Office (Excel, PowerPoint)