

# Savar Gupta

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## EDUCATION

### Simon Fraser University

*Bachelor of Applied Science (BASC), Mechatronic Systems Engineering*

Burnaby, BC

Sept. 2021 – 2027 (Expected)

### Simon Fraser University, Beedie School of Business

*Bachelor of Business Administration (BBA) – Double Degree Program*

Burnaby, BC

Sept. 2021 – 2027 (Expected)

- Relevant coursework: Embedded Systems, Control Systems, PCB Design, Microcontrollers
- Achievements: 4× 1st-place finishes at SFU Beedie ELITE Case Competition, SFU Beedie Data Analytics Hackathon, and Enactus Canada Western Regionals (2024–2025); RBC Foundation Best Project – \$4k (2025); Enactus Canada Nationals 2nd place (2024); Dean's & President's Honor Roll (7x)

## EXPERIENCE

### TELUS Corporation

*Technical Product Manager Co-op, Internet Hardware*

Vancouver, BC

Jan. 2026 – Present

- Analyzed **100+** customer surveys, retention transcripts, and technician notes (Looker Studio + Tableau) to surface customer internet hardware business-rule gaps; prioritized fix saved **\$3.1M annually** in defective hardware shipments
- Built business case for one-box vs two-box Wi-Fi architecture by synthesizing customer, agent, and technician feedback; recommendation balanced installation simplicity with extender-upsell economics, shaping **multi-year hardware roadmap**
- Wrote product requirements, test cases, and business rule specs for NWH (Wi-Fi 7 Gateway) trial launch
- Defined Boost V3 + Smart Home Plus integration requirements (Wi-Fi AP + smart-home hub in one device) – market research, user-journey mapping, silicon-capability validation with hardware engineering

### Unify Social – unifysocial.ca

*Co-Founder*

Vancouver, BC

July 2024 – Present

- Founded and lead Unify, a React Native + Supabase mobile app helping newcomers to Canada access trusted resources, community, and settlement guidance, while leading cross-functional teams (product design, engineering, marketing)
- Scaled to **250+** users and **16 partnerships** across nonprofits, corporates, and post-secondary institutions; hosted **25 community events**, launched an ambassador program, and drove **2M+ social media views**
- Architected a RAG-powered AI Companion on a self-healing knowledge base — cron jobs scrape Government of Canada websites to keep settlement guidance accessible, accurate, and current
- Translated insights from **51 user interviews**, **225 surveys**, and **73 beta testers** into Unify's product roadmap, feature releases, and long-term growth strategy

### Algo Communication Products Ltd.

*Electro-Mechanical Engineering Co-op*

Burnaby, BC

May 2023 – Aug. 2023

- Diagnosed PCB faults using oscilloscopes and frequency-response analyzers; wrote Python test scripts to **automate fault detection**, increasing **production throughput 25%** on speaker and horn product lines
- Validated **200+** PCB assemblies and mechanical enclosures for outdoor cameras against design specs, achieving **98% first-pass compliance** across **5 product families**

## PROJECTS

### Aqua Analyzer | KiCad, ESP32, Embedded C, BLE

Oct. 2023 – Dec. 2024

- Built multi-sensor water testing prototype (pH, turbidity, temperature) achieving **90%+ measurement accuracy** across all three metrics versus calibrated reference
- Designed PCB in KiCad (ESP32 + 3.3V regulated supply); implemented firmware in Embedded C for UART data acquisition and BLE transmission to companion mobile app

### SFU Rocketry – Propulsion & Mechanical | SolidWorks, FEA, Pneumatics

Oct. 2022 – May 2024

- Developed, validated, and hot-fired LOX/Ethanol liquid rocket engine using SolidWorks and FEA — full design-to-test cycle including thermal and structural analysis
- Manufactured automated pneumatic valve system for LOX/Ethanol tanks, achieving precise flow regulation for engine stability and safety

## TECHNICAL SKILLS

**Product:** Roadmapping, PRDs, A/B Testing, User Research & Interviews, Customer Journey Mapping, Financial Modeling, Supply Chain, Looker Studio, Tableau, PostHog, Jira, Figma

**Hardware:** KiCad, SolidWorks, FEA, MATLAB, Embedded C, ESP32, 8051, PCB Design, BLE, Matter, UART, Oscilloscopes

**Software:** TypeScript, JavaScript, Python, React, React Native, Expo, Next.js, Astro, SQL, Git

**AI Tooling:** Claude Code, Cursor, Codex, OpenRouter, Ollama, RAG pipelines

**Cloud & Backend:** Supabase (Auth, PostgreSQL, Edge Functions), AWS S3, Cloudflare Workers, Sanity CMS, Resend