

# Sarah Hill

Kamloops, British Columbia

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## Professional Summary

- Software Engineering (BEng) student at Thompson Rivers University with strong problem-solving skills.
- Knowledgeable in software development, digital systems, engineering management, and signal processing.
- Adaptable team player, proven through experience assisting in short-staffed environments.
- Detail-oriented with strong organizational skills in record management and payment processing.
- Effective communicator with customer service and office coordination experience.

## Education

**Thompson Rivers University, Kamloops, BC**

*Bachelor of Software Engineering (BEng) Student*

September 2023 – April 2028

GPA: 3.76 | Dean's List (Fall 2023, Fall 2024, Winter 2025)

## Projects

*TonyPi ROS2 Integration – Research Project, 2025*

- Developed Python scripts to interface with robotic systems using ROS2
- Implemented servo control and encoder feedback for system validation
- Worked with real-time data and hardware-software integration

*Weather App (Personal Project) – Independent*

- Built a weather dashboard using JavaScript, HTML, and CSS.
- Integrated OpenWeather API to fetch and display real-time data.
- Focused on responsive UI design and clean code structure.

## Work Experience

**Thompson Rivers University, Kamloops, BC – WorkStudy Student**

September 2025 – April 2026

- Supported the Engineering Department with logistics and coordination for workshops and outreach programs.
- Assisted in planning and executing high school outreach events promoting engineering education.
- Contributed to initiatives that enhanced student engagement in engineering disciplines.

**Thompson Rivers University, Kamloops, BC – Teaching Assistant**

September 2025 – December 2025

- Graded lab assignments and provided detailed feedback for 20 students.

- Guided students during lab sessions, clarifying programming and engineering concepts.
- Helped improve student understanding and performance through one-on-one support.

### ***BFL Canada, Prince George, BC – Summer Student***

June 2021 – September 2025 (4 summer terms)

- Worked in multiple departments over four summers, gaining diverse operational experience.
- Optimized call routing protocols, reducing average customer wait times by 15%.
- Led the transition to a paperless system by digitizing department files, improving accessibility and efficiency.
- Processed payments accurately while maintaining customer trust and confidentiality.

### ***Thompson Rivers University, Kamloops, BC – Undergraduate Research Assistant***

May 2025 – June 2025

- Planned and executed experiments integrating the TonyPi humanoid robot with ROS 2.
- Collected and documented data for servo and motor performance testing.
- Independently prepared lab setup, maintained research logs, and ensured smooth workflow during testing sessions.

## **Community Involvement**

### ***Faculty of Software Engineering – Peer Mentor***

September 2024 – Present

- Mentor first-year students to support academic and professional growth.
- Organize workshops and peer sessions to strengthen engagement and retention.
- Foster an inclusive and supportive community within the program.

### ***TRUSU Women in Engineering Club – President***

May 2024 – Present

- Lead and organize events promoting diversity and inclusion in engineering.
- Collaborate with faculty to set strategic goals and outreach initiatives.
- Manage communications and member engagement to strengthen community involvement.

## **Volunteer Experience**

- Supported hospitality and guidance for the first NASA Space App Challenge hosted in Kamloops.
- Assisted at the Women in Engineering workshop, guiding participants in robot building and programming.