# Peter Scholtens Computer Engineering Student

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## TECHNICAL SKILLS

| Programming | Computer Tools | Certificates |
| --- | --- | --- |
| C++ | Git | Canadian Boat License |
| Python | Visual Studio | Occupational First Aid Level 1 |
| Java | Solidworks | BC Class 7 Driver's License |
| Verilog | FBGA Microcontroller | Standard First Aid |
| ARM assembly | Circuit Construction | Serving it Right Certificate |
| | IntelliJ | Transportation Endorsement |
| | ModelSim and Quartus | |

## EDUCATION

**University of British Columbia**                                          **Apr. 2025**
*Bachelor of Applied Science - Computer Engineering*

**Thompson Rivers University**                                **Sept. 2020 – Apr. 2021**
*Engineering Transfer Year One*

## TECHNICAL PROJECTS

**Simple RISC Machine,** UBC                                    **Oct. 2021 – Dec. 2021**
• Designed and coded a reduced instruction set computer with Verilog, Quartus, and ModelSim

**Wikipedia Mediator Server,** UBC                                              **Dec. 2021**
• Developed a server to take requests from clients and return results
• Programmed a thread-safe object to determine the shortest path between two Wikipedia pages

**Data Object,** UBC                                                             **Nov. 2021**
• Coded a data object to store over 300,000 emails and performed computations to analyze it

**Document Analyzer,** UBC                                                       **Oct. 2021**
• Developed a program in Java to compare text documents and sort based on the Jensen-Shannon Divergence using unique word ratio, average word length, etc.

**Automated Garbage Bin,** TRU                                  **Mar. 2021 – Apr. 2021**
• Engineered and built a trash can, it opens to motion and notifies user when full
• Wrote a report detailing every step of the Design Process and ways to improve (stress, cost)

**Smart Parking System,** TRU                                   **Feb. 2021 – Mar. 2021**
• Designed and constructed a parking system, it notifies and directs user to empty parking space
• Presented a video demonstrating how it works

**Multi-purpose Furniture,** TRU                                **Oct., 2020 – Nov. 2020**
• Produced a convertible chair/table to save space in a small apartments
• Created a SolidWorks 3D model and performed tests to measure stress and strain to ensure safety

**Android App,** (Personal Project)                             **Nov. 2017 – Feb. 2018**
• Programmed a simple dodging game using Python and Pygame, it runs natively on Android

- Has around 1000 installs on the Google Play Store (Asteroid Gold)

## ENGINEERING STUDENT TEAMS

**THUNDERBOTS,** UBC                                                    **Sept. 2021 – Present**
*Software Developer*
- Implemented the Network Service with C++ for Jetson Nano Board using
- Fixed bugs and debugged errors

## OTHER WORK EXPERIENCE

**Superprof,** Merritt, BC                                              **Mar. 2021 – Present**
*Private Tutor (Casual/On-call)*
- Tutored Python and Pygame over Zoom

**Thompson Lawn Care,** Merritt, BC                                     **Apr. 2021 – Aug. 2021**
*Fulltime Labourer*
- Installed and repaired irrigation systems
- Built two water features with a waterfall and a creek system

**Boston Pizza,** Merritt, BC                                          **Sept. 2018 – Aug. 2021**
*Server and Bar Server*
- Took orders, bussed food, cleaned tables, made alcoholic beverages, answered phone calls
- Provided good customer service, despite angry customers

**Walmart,** Merritt, BC                                               **Apr. 2020 – Apr. 2021**
*Cashier*
- Greeted customers
- Scanned items and promoted surveys, donations, and rewards card

## VOLUNTEER EXPERIENCE

**Nicola Valley Search and Rescue,** Merritt, BC                        **Sept. 2018 – Present**
*Ground Search and Rescue*
- Searched for lost people when a call out was received
- Coordinated evacuation of Lower Nicola due to fire of summer of 2021

**Merritt Outdoor Sports,** Merritt, BC                                 **Sept. 2017 – May 2019**
*Assistant Coach/Organizer*
- Brought balls, set up nets, demonstrated drills
- Mentored kids

**Merritt Hands of Hope Food Run,** Merritt, BC                         **2017 – 2019**
*General Helper*
- Drove around town and collected food items

## AWARDS

Faculty of Science Deans List (TRU)                                    **Fall 2020**
Employee of the Month (Walmart)                                        **May 2020**

## PROFESSIONAL AFFILIATIONS

Engineers and Geoscientists British Columbia, Student                  **2020 – Present**

## INTERESTS & ACTIVITIES

- Programming
- Anime
- Spike-ball