

Akashdeep Randhawa

ELECTRICAL ENGINEERING STUDENT

Vancouver

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Education

University of British Columbia

BASC IN ELECTRICAL ENGINEERING

Vancouver, BC

Sept. 2017 - Exp. May 2023

- Currently enrolled in my forth year in the electrical engineering program.
- Key Courses: System Software Engineering | Computer Communications | Data Structures and Algorithms

Work Experience

ASIC Developer

Vancouver, BC

INTEL

Jan. 2021 - Sept. 2021

- Developed code for various blocks on a new IP in **System Verilog**.
- Developed test-benches and universal verification components.
- Utilized Universal Verification Methodology (**UVM**) to test multiple blocks.

Electrical Engineering Co-op

Richmond, BC

CADEX ELECTRONICS

Sept. 2020 - Jan. 2021

- Hardware and Firmware Testing and Development
- Developed tools for data capturing and analysis using **Python**.
- Converted the power supply & load communication and data collection code from **Python** to **C#**.

Technical Projects

mytineraary

PROJECT

Jan. 2022

- Designed and coded the front end of a website using **React**. The website created an itinerary based upon your trip destination and preferences.
- Implemented a multi-page website used to collect user preferences based on keywords, sliders and check boxes.

Amazoom

UBC

Oct. 2021 - Dec. 2021

- Designed a virtual warehouse in **C#** with CLI client and server interface and TCP socket connection.
- Implemented automated and multi-threaded robots for retrieval of orders placed by the client.
- Used thread safe queues for keeping track of working orders and created an algorithm to efficiently send out delivery trucks with the fulfilled orders.

iPod

UBC

Mar. 2020

- Designed various FSMs with start/stop protocol using **SystemVerilog** to interact with the Altera flash controller on the **DE1SoC** board and output audio signals which were retrieved from the memory.
- Implemented a keyboard interface which allowed to user to have control over the playback speed as well as direction through the use of an external keyboard.

Skills

Languages

C | C# | C++ | JavaScript | HTML5 | CSS3 | Verilog | Python | R

Frameworks and Libraries

React | Vue | Express | Node | Flask | numpy | panda

Tools

Git | Linux | JIRA | MongoDB