

Akashdeep Randhawa

ELECTRICAL ENGINEERING STUDENT

Vancouver

☎ (778)-680-0738 | ✉ akashrandhawa@hotmail.com | 📱 akashr17 | 🌐 akashdeep-randhawa

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

Full Stack Developer

PROMAG ENVIRO SYSTEM

Langely, BC

May 2022 - Sept. 2022

- Worked with a Single Board Computer (SBC) that interacts with hardware to monitor water data using **Python**
- Designed a mobile app using **Flutter** to allow customers to monitor sensor data from SBC via HTTP and Bluetooth
- Implemented API endpoints in **Django** to communicate with the database as well as the SBC through the **AWS IOT Core MQTT** protocol

ASIC Developer

INTEL

Vancouver, BC

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.

Software Developer

CADEX ELECTRONICS

Richmond, BC

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.

Skills

Languages

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

Frameworks and Libraries

React | AWS IOT Core | Express | Node | Flask | numpy | panda

Tools

Git | Linux | JIRA | PGAdmin | Postman