

Neeraj Bansal

Embedded Hardware/Firmware Developer

Hard-working Electrical Engineer major currently in Simon Fraser University, with 1.5+ years of work experience. Aiming to leverage a proven knowledge of computer aided engineering, product design and environmental testing to successfully fill the role at your company. Frequently praised as adaptable by my peers, I can be relied upon to help your company achieve its goal.

neerajb@sfu.ca ✉

7788598121 📞

Burnaby, Canada 📍

linkedin.com/in/neeraj-b-77b058a2 in

github.com/neerajb 🐙

EDUCATION

Mechatronic Systems Engineering Simon Fraser University

05/2017 – Present

WORK EXPERIENCE

CNC Programmer/Operator KamCraft Kitchen Cabinets LTD

02/2020 – Present

Achievements/Tasks

- Programmed CNC for standard design with alphacam
- Fully Operated CNC for wood-working
- Worked with plywood, melamine and MDF

Hardware/Firmware Engineer Metabolic Insights Inc.

09/2019 – 12/2019

The company works in designing medical products to provide individual's data related to health.

Achievements/Tasks

- Designed PCB test boards to test new components
- Programmed CNC for testing purposes
- Designing circuit topology of the new components

PCB Designer Team Phantom

09/2018 – Present

Dedicated SFU team designing an electric race car to compete in SFAE 2020

Achievements/Tasks

- Designed Power Distribution Board that distributes power to the low voltage system of the vehicle
- Soldered multiple boards with SSOP and QFN components with a hot air gun
- Programmed TMS570 Microcontroller for different communication protocols

PCB Designer and software Engineer Ciber Labs (SFU)

05/2018 – 08/2018

Research team to work on prolonging the rusting of metal

Achievements/Tasks

- Selected components based on design aspects
- Modified PCB design for new adjustments
- Programmed back-end of the interface with python

SKILLS

KiCAD

Altium

Matlab

Simulink

Solidworks

PCB Soldering

Python

Embedded System Programming

C++

PERSONAL PROJECTS

SFU FAS Engineering Competition (10/2018 – 02/2019)

- Won the competition for designing an Eco-bot that collects garbage and then sorts it based on organic and inorganic properties

Western Engineering Competition (11/2019 – 01/2020)

- Designed an innovative device for adults to learn how to swim

EXTRACURRICULAR ACTIVITIES

VP Academics (MSESS) (05/2018 – Present)

Advocating for students to the faculty for improvisation in the curriculum. Handling student issues and improve academic experience.

CERTIFICATES

Basics of CNC programming and machining

Learned how to use CamMaster to operate CNC

LANGUAGES

English



Hindi



INTERESTS

Foosball

Badminton

Basketball

Anime

Philosophy