

Vishnu Venkatesh



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Technical Skills

Modeling and Analysis

SolidWorks
MATLAB
COMSOL

Programming

C
Java
Python

Prototyping

3D Printing
Laser/Waterjet Cutting
Machine Shop Tools
(Mill, Lathe, Hand tools)

Circuit Analysis

Electronic Analysis
Tools (Oscilloscope,
Function Generator)
LTspice

Content Development

Microsoft Office
LaTeX

Other Interests

Public Speaking
Origami
Machining
Keyboard
Reading

Languages

Native English
Conversational Tamil
Limited Working French
Limited Working Hindi

PROFILE

Engineering graduate with an aptitude for prototyping. Skilled in designing, and integrating mechanical, electrical and software systems. Seeking opportunities in Engineering Research and Development, and Product Design.

EDUCATION

Bachelor of Applied Science, Engineering Physics (ENPH)

University of British Columbia (UBC), Vancouver, 2020

- Recipient of Outstanding International Student Award

International Baccalaureate Diploma, High Honors

Abu Dhabi International School, Abu Dhabi, 2014

- Recipient of Excellence in Science award

PROJECT EXPERIENCE

Magnetic Mapping of SRF Cavities

TRIUMF (Tri-University Meson Facility), UBC, 2019

- Worked in a team to design a coil array to study superconducting cavities. Simulated and fabricated the coils. Tested the strength and uniformity of the field generated.

Moving Magnetic Field Particle Trap Decelerator

Centre for Research on Ultra-Cold Systems, UBC, 2018

- Worked in a team to simulate and construct a prototype of a linear magnetic particle decelerator to cool down methyl radicals for further study. Designed and fabricated the decelerator segment and tested the profile and strength of the generated.

UBC Unmanned Aerial Systems Design Team

University of British Columbia, 2018

- Identified precision and reliability issues with the communication system. Ordered, fabricated and installed replacement parts which improved stability and functionality.

UBC ENPH Robot Design Competition

University of British Columbia, 2016

- Worked in a team to develop a robot to autonomously transport objects. Designed and fabricated components and integrated them with electrical and software systems.

UBC Orbit Design Team

University of British Columbia, 2015

- Used Solidworks to design the chassis and internal layout of a CubeSat satellite meant to image earth. Fabricated chassis parts from sheet metal using power/hand tools.

WORK EXPERIENCE

Intern

Honeywell International Inc, Abu Dhabi, Jun 2015

- Used Kaizen and 5S implementation to improve waste management in the warehouse.
- Learnt basics of process control systems and its industrial applications.

Intern

Denholm Yam Contracting Co, Abu Dhabi, Aug 2015

- Assisted with document workflow by identifying changes between versions of HVAC drawings and updating bills of material.

EXTRACURRICULARS

Toastmasters International, 2021

- Active member of Toastmasters chapters in Chennai, Abu Dhabi and Vancouver.
- Coached students in public speaking and leadership skills at Vancouver Gavel Club.