VID SHARDA

Summary

- Learned HTML, CSS, JavaScript and built my own website to help engineering students with practice assignments and exams
- Tested, debugged and implemented ultrasonic sensors with Raspberry Pi
- Built a portable Scanning Electron Microscope in 2 days with a piezoelectric disc, amplifiers and personally made vibration isolation system
- Used Python to create linear algebra solvers and simple encryptions and used MATLAB to model large data
- Created multiple projects and designs using SolidWorks and AutoCAD with mechanical movements, parts, and simulations with assemblies
- Worked in several group settings at hackathons in fast-paced environments and created projects together

Proiects

KeyStone (Solid Works, Circuits, 3D Printing, Raspberry-Pi, JavaScript, Node.js)

- The KeyStone connects to the KeyStone app to track packages, prevent unauthorized openings and remotely lock the safe, fully designed on Solid Works
- The locks were 3D printed and hooked up to a raspberry-pi with ultrasonic sensors and motors attached, while connected over Wi-Fi to an app made using HTML, CSS, JavaScript, and bootstrap.

The Nano Scribe (HTML, CSS, Javascript)

Dec. 2019 to Current

 Personal project made using HTML, CSS, and Javascript to help future Nanotechnology Engineering students with practice problems, course notes, and practice tests, restricted access to those with waterloo email

Scanning Tunneling Microscope (Solid Works, Circuits, Laser Cutting) Mar. 2020 to Current

- Designed and built an STM in two days in a group to avoid the inadequacies of an optical microscope
- Designing and building a vibration isolation system using springs, magnets and laser-cut acrylic boards, while designing the apparatus on SolidWorks

Solid Works Box Car (Solid Works)

Dec. 2019

Worked in a team of 4 to design a boxcar with functioning steering mechanism and simulations on Solid Works.

Work Experience

Sports Club Soccer Coach · Coach Malton

Coached a group of 17 teenagers over the summer while engaging them in teamwork, communication, and motivating them to work hard. Had to handle requests from parents and players.

North Park Eco Club · Treasurer Brampton

Hosted events such as an electronic waste drive to encourage proper waste disposal and was the treasurer for 3 years. Maintained reports, invoices, and had a full ledger of transactions.

Math Tutor · North Park Secondary School Rramnton

Contact

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nanovid

Skills

TECHNICAL SKILLS

Python

HTML

CSS

MATLAB

Solid Works

AutoCAD

Circuits

Microsoft and Google Suite

Photoshop

Machine Shop and 3D Printing

ArcGIS

VBA

Git and Github

Wet Labs

SOFT SKILLS

Organization

Collaboration

Interpersonal

Public Speaking

Problem Solving

Awards and Achievements

DECA Provincials ·

DECA Top 10 Provincials Won in the Marketing Team Decision Making category in a chapter with over a thousand members.

University of Waterloo · **Top 20 Program Ranking**

Dec. 2020

Interests and Hobbies

Astronomy

Sports · Basketball, Soccer and Cricket

Photograpy and Editing •

Using Adobe Software such as Photoshop,

Muse and Premier