Ryan Hua

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EDUCATION

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY   **Blacksburg, VA**
BS in Computer Engineering, Minor in Music-Technology   May 2024
Cumulative GPA: 3.52

EXPERIENCE

Triple Point Security   **Blacksburg, VA**
Cybersecurity Intern   Spring 2022-Present
- Working in a cohort to complete deliverables given
- Working with Virtual Machines to learn about CLI and GUI operations related to Cyber Security and Network
- Using different server connections such as SSH, telnet, FTP, apache2
- Wireshark to capture packets to check for inbound and outgoing connections from different VMs

Undergraduate Researcher Hume Center   **Blacksburg, VA**
Signal Sensing Machine Learning Volunteer   Spring 2022-Present
- Using python to learn about Machine learning classification and detection for communication signals
- Communicating with a team of 5 about research issues and planning out tasks for the research
- Gaining experiences in using the GitHub repository to create issues, pull requests, etc.

SKILLS

Technical skills: Kali Linux, Ubuntu desktop, Ubuntu Sever, Wireshark, C/C++, Arduino, Verilog HDL, Python 3.10, HTML, JavaScript, CSS
Simulation tools: KiCad, LTspice, Quartus, Waveform
Software tools: GitHub Desktop, Jupyter Notebook, Atom Text Editor, VMware

PROJECTS

Personal Website   **Spring 2022-Present**
- Creating a personal website to post about my ongoing projects and/or complete projects.
- Basic structure of the website is made using HTML and CSS

Class A Amplifier in Virginia Tech Amp Lab   **Spring 2022-Present**
- Building a single stage Class A amplifier using KiCad based on the PCB design and schematic by Nelson Pass

Macro pad with Rotary Knob programmed with multimedia function   **Winter 2021**
- Built a macro pad with a Raspberry Pi Pico, rotary encoder, and keyboard switches to make a multimedia knob
- Could be used as to scroll up or down webpages and change the computer's volume
- Developed using Python and Thonny IDE

ACHIEVEMENTS

Boy Scouts of America   **Fall 2017-Spring 2018**

Eagle Scout Award: Highest rank in BSA that shows leadership, service, and spirit

ACTIVITIES

Society of Asian Scientists and Engineers, Virginia Tech   **Fall 2020-Present**

Deloitte Virginia Tech FirstGen Mentorship Program   **Spring 2022**

RELEVANT COURSES

- Circuit and Devices
- Embedded Systems
- Music Theory
- Computational Engineering
- Signals and Systems
- Computer Music & Multimedia
- Fundamentals of Digital Systems
- Physical Electronics
- Principles Comp Architecture