

Trevor R. McNeil

<https://trevernever.github.io/>

PERSONAL

Institution

Virginia Tech

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SKILLS

Proficient:

- Java
- C/C++
- Python
- Microsoft Excel

Intermediate:

- MATLAB
- Web Development
- Linux
- Git
- Arduino
- LTSpice

Familiarity:

- Javascript
- Quartus

INTERESTS

- Programming
- Web Design
- Robotics
- Arduino
- Speaker Design
- Circuit Design
- Video Games
- Playing Instruments
- D&D

OBJECTIVE

Looking to apply my skills and abilities to a controls and robotics or software engineering internship.

EDUCATION

Bachelor Degree in Electrical Engineering

Class 2022

Bachelor Degree in Computer Science

Class 2022

PROJECTS & LEADERSHIP

Officer of the TRE club

Fall 2020~

- Helping teach/design the lessons, create the club website, and planning more advanced club content.

Designing a personal website

Fall 2020~

- Published on **github** using only **HTML** and **CSS**.
- Learning more about **web development** to modernize the functionality and appearance.

Programming with the Xbox 360 Kinect

Fall 2020~

- Learning to use the Kinect's features for object tracking and object scanning.
- Planning on making a game and a program to render models of objects using the sensor input.

Designing a Speaker at the AMP Lab

Spring 2020~

- Working on **filter** and **power circuit** design.

WORK EXPERIENCE

Dining Hall - D2

January 2019 - May 2019

Virginia Tech, Blacksburg VA

- Learned about customer service and interpersonal communication.
- Working a different position every shift, I learned to quickly adapt to any given situation.

Engineering Internship

Winter 2018 - 2019

Metalogix, San Antonio TX

- Worked through the **Research** and **Design** process.
- Edited reports and created **Excel** spread sheets.

Music Instructor

May 2018 - August 2018

School of Rock, San Antonio TX

- Learned to simplify information, and adapt to what the student needs.
- Worked individually with students 1-on-1 and in group settings regularly.

COURSES

Programming in Python (Python)

- used canvas **API** to calculate and display grade averages based on course CRN.

Problem Solving in CS (Python)

- Learned about Web scraping. Making post and pull requests in **Json** format

Software Design and Data Structures (Java)

- Created a program that read survey data stored in an excel file, and displayed the data in a **GUI**. Data is several pages long, and lets the user select the sorting method.

Computational Engineering (C++)

- created a **C++** program to take flight commands from a text file and send them to a drone.

Applied Software Design (C++)

- Learning about **software design** in a **C++** context.

Embedded Systems (C)

- Created a videogame on the TI-MSP432 using **C** and learning **board architecture**.

Intro to Computer Organization I (C)

- Learning about **linux** operating systems and how to manage memory in program design.

Integrated Design Project

- Created a smarthome simulation using **arduino** controlled via a bluetooth connection with a phone app.

Circuits and Devices

- Learned many different ways to analyse and design **DC circuits**.

AC Circuit Analysis

- Learning about different AC elements, such as **transformers** and **zobel** networks, as well as how to design **AC systems**.

Signals and Systems

- Learned to process signals and design **filters**. Created a filter to remove a corrupt signal from an audio clip.

Continuous and Discrete Systems

- Learning about **filter design**, and how to realize transfer functions of systems.