Email:

harrisonwdavis@gmail.com

Phone:

864-977-8770

Portfolio:

https://hwd2002.github.io/portfolio/

Skills:

Coding experience:

MATLAB Lua Python

Linux Shell Scripting

Graphical Design experience:

CATIA

- Drafting
- 3D Design

Adobe PhotoShop
Adobe Illustrator
PowerPoint
Clip Studio Paint
Hand Sketching & Drafting

Miscellaneous Skills:

Soldering/PCB Repair Electronics Prototyping Electronics Repair P.C. Hardware Excel Word PowerPoint

Harrison W. Davis

Student Experience

- Embry Riddle: rising Sophomore, Mechanical Engineering.
- Rowan-Cabarrus Community College: Associates of Science

Work Experience

Table 11 Restaurant, Concord, NC: June 2021-June 2024

- Food Prep/Cooking: including shopping, food prep in kitchen.
- Maintaining Kitchen Machinery: including dishwasher, electric scales, various appliances.
- Small Business Work: needed to adapt and change priorities on the fly.

Protodyne Machine Shop, Harrisburg NC: Aug 2017-Feb 2020

- Machine Work: assisted in maintenance and operation of the CNC mills and lathes in the shop.
- Manual Work: manually sanded down parts utilizing band saws, cut metals into machinable blocks, and ensured the finished products were within acceptable deviation.

Personal Projects

Game Development

- 3D rendering engine: made a simple 3d engine from only basic components to learn the math behind computer graphics (dot products, matrix multiplication, etc.)
- Neural Network: implementation of a simple neural net into a small game with evolution-styled "learning".
- Image Compression Algorithm: recreating the methods of storing sprites on a Gameboy cartridge.

Physical Projects

- Computer Building: built four desktops over time for different purposes.
- Electronics Repair: managed to repair to usable condition 5 separate laptops and desktops that were non-functional due to hardware damage. Additionally I've repaired an Ipod classic, several smartphones, and miscellaneous appliances.
- UAV Building: designed and built multiple fixed-wing UAVs (&UGVs) and flown them as a hobby. The biggest one had a wingspan of 5ft.
- Misc. College Engineering Projects