

Brian Hill

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EDUCATION

George Mason University

Fairfax, VA

Computer Engineering, BS

Expected December 2024

- Notable Courses: Circuit Analysis I, Comp Programming for Engr, Object-Oriented Programming, Continuous-Time Signals and Systems, Digital System Design, Differential Equations, Computer Organization

Battlefield High School

Haymarket, VA

Advanced Diploma

2016 - 2020

- Graduated with Silver Medal for BHS IT Program
- 4 Years of Career and Technical Education Courses (CTE)
- Relative Activities: Section Leader for BHS Front Ensemble, Student Teacher for Steel Drum Club

WORK EXPERIENCE

Sales Associate and Print Specialist

Manassas, VA

The UPS Store

November 2020 – Present

- Managed Enterprise IT network and point of sales systems.
- Supervised high volume print jobs and designing methods to more efficiently sort and manage multiple enterprise grade printers.
- Worked in national and international logistics for major retail package services.
- Designed and printed customers personalized business advertisements.

PROJECTS

Keyboard Design

brianchill.us/#/Keyboard

- Designed Schematic, PCB, and external housing for external Manufacturing.
- Added functionality to existing firmware and documented changes/code on Github.
- Wrote bill of materials and chose cost effective components for design which were implemented into final product.

Microcontroller Powered Video on OLED Screens

brianchill.us/#/Oled

- Developed software interface to transmit video over serial.
- Used OpenCV to process video and compressed data for transmission and low-level playback.

Hardware-based Line Following Robot

brianchill.us/#/LineFollower

- Designed Opamp based platform to drive four motors - Controlled by photoresistor-LED, transceiver-receiver design.
- Integrated low-budget off the shelf components into design to satisfy budget requirements.

TECHNICAL SKILLS

Languages: Python, C, Java, MATLAB, VHDL

Professional Applications: MS Office, Adobe CC, Fusion 360/Inventor, Xilinx Vivado, KiCAD, Docker, Github

Operating Systems: Windows, Arch Linux, Ubuntu, Raspberry Pi OS, Fedora, Proxmox, ESXi

Hardware Competencies: FPGA, Microcontrollers, Oscilloscopes, Networking Devices

AWARDS

IT Silver Medal | June 2020

GMU Tech Talent Awards | Multiple Years