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

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.html
- 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.html
- Developed software interface to transmit video over serial.
- Used OpenCV to process video into compressed bytes which can be played back on low-level hardware.

Hardware-based Line Following Robot
brianchill.us/linefollower.html
- Designed Opamp based platform to drive four motors - Controlled by photoresistor-LED, transceiver-receiver design.
- Integrated design into low-budget off the shelf components which satisfied low-budget requirements.

TECHNICAL SKILLS

Languages: Python, C, Java, MATLAB, VHDL
Professional Applications: MS Office, Fusion 360/Inventor/Revit, 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