

# Brian Hill

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## EDUCATION

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### 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

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### 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

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### 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 into compressed bytes which can be played back on low-level hardware.

### Hardware-based Line Following Robot

*brianchill.us/LineFollower*

- 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

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**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

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**IT Silver Medal** | June 2020

**GMU Tech Talent Awards** | Multiple Years