

# Brian Hill

703-946-1545 | [hillbr20@gmail.com](mailto:hillbr20@gmail.com) | [LinkedIn](#) | [Github](#) | [brianchill.us/](http://brianchill.us/)

## EDUCATION

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### George Mason University

*Computer Engineering, BS*

Fairfax, VA

*Expected December 2024*

- Notable Courses: Circuit Analysis I/II, Data Structures and Embedded Systems Programming, Continuous-Time Signals and Systems, Digital System Design, Differential Equations, Computer Organization, Embedded Systems

## WORK EXPERIENCE

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### Software Developer

*CACI International Inc.*

Reston, VA

*May 2023 – Present*

- Modified and developed SQL scripts for conversion between government financial systems.
- Worked on Python-Selenium-based automated testing tool for Momentum based software.
- Utilized government-based Agile approach to efficiently iterate on given requirements.
- Received public trust clearance from VA. (Intern from 2023 – )

### Sales Associate and Print Specialist

*The UPS Store*

Manassas, VA

*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](http://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](http://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](http://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

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**Languages:** Python, C/C++, Java, PL/SQL, MATLAB, VHDL, JS/Web, Bash

**Software/Packages:** MS Office, Adobe CC, Fusion 360/Inventor, Xilinx Vivado, KiCAD/PSpice, Docker, Git, Jenkins, SQL Developer, Nginx/Apache, Node - ReactJS, OpenCV

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

**Hardware Competencies:** FPGAs, Microcontrollers, Elec.Testing Insts., Networking Devices

## AWARDS & CERTIFICATIONS

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**IT Silver Medal** | June 2020

**GMU Tech Talent Awards** | Multiple Years