

BRIAN CULBERSON

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References Upon Request
<https://github.com/InJanus> - **injanus.tech**

Languages

- ❖ Java, C++/C, Rust, Cuda, Python, WebDev (HTML, JS, CSS), AWS, Angular.js, Angular, React, Next.js, VB.net, C#, VB6, MATLAB, Octave
- ❖ Microsoft Office, Windows, Linux (Ubuntu, Mint, LFS)

Education

- ❖ University of Cincinnati | College of Engineering and Applied Science
 - ❖ Computer Engineering Major, Computer Science Minor - Class of 2022 – GPA 3.0

Work Experience

- ❖ Associate Firmware Developer | Prodigy – August 2022 to Present
 - ❖ Develop schematics, PCB's, Industrial schematics, firmware, and Desktop applications
 - ❖ Supporting and making design decisions for projects and services.
 - ❖ Work in a consulting role, quoting for clients, problem solving hardware & software issues.
- ❖ Co-op Developer | ITI Global (Wipro) – January 2021 to August 2021
 - ❖ Implement Python scripts for data migration in systems.
 - ❖ Assist with new implementation and bug fixing with Java backend and Angular front end (DEXcenter)
- ❖ Co-op Developer | Siemens PLM – May 2020 to August 2020
 - ❖ Training on Siemens NX (Modeling, Advanced Modeling, Assemblies, Advanced Assemblies, Routing)
 - ❖ Work on PR reports involved with NX Routing and Fixing tests
- ❖ Co-op Developer | Siemens PLM – August 2019 to December 2019
 - ❖ Continuing of 1st Rotation – More involved in the development process for Solution Link
 - ❖ Web Development of new User stories and Bugs related to Mindstart page
 - ❖ Working with an international team of developers on a large code base
- ❖ Co-op Developer | Siemens PLM – January 2019 to April 2019
 - ❖ Developing and Debugging local Python flask API Search Tool (Elastic Search)- Mindstart
 - ❖ Implementing solution in a web tool using Angular.js - Solution Link
 - ❖ Start implementation in AWS Lambda using S3 Buckets

Projects

- ❖ Arduino and Raspberry PI - LED controller, IOT Devices, Robot Arm, Custom 3D Printer
- ❖ Website (injanus.tech) - Angular.js and React
- ❖ Electric rideable – 6kW Electric Motorcycle, 1kW electric unicycle
- ❖ Personal Server Rack - GIT Server, Flask API, NAS Server, Email Server, Web Server
- ❖ Various computer programs - Games, API Programming, Simulation, Server hosting
- ❖ Academic Research - Flapping Wing Vehicle

Skills

- ❖ 3D Modeling – Prototyping - Siemens NX, Autodesk (AutoCAD, Fusion 360), Solidworks
- ❖ Electrical Design – (Eagle CAD, KiCad, Altium Designer, AutoCad Electrical)
- ❖ Shop Experience - 3D Printing, Advanced Slicing - CNC Manufacturing (Lathe) - Woodworking
- ❖ Soldering - PCB design, Custom PCB Etching
- ❖ Amateur Radio – Mobile, Handheld, and Repeater setup and Programming
- ❖ Threading and Parallel Programming – Development and Debugging
- ❖ Microcontroller Solutions – Bear metal STM32 & ATmega
- ❖ Communication Protocols – UART, I2C, SPI, Ethernet, USB

Organizations

- ❖ UCARC (University of Cincinnati Amateur Radio Club) Treasurer
 - ❖ Responsible for allocating university funds
- ❖ Hoosier Leadership Workshop Board Member
 - ❖ Making decisions on new improvements on the annual workshops