# BRIAN CULBERSON

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References Upon Request
https://github.com/InJanus

## 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, Debian, Mint, LFS)

## Work Experience

- Research & Development Engineer | Prodigy – August 2024 to Present
  - Develop schematics for a flagship product. Prototype PCB's, develop and test firmware
  - Make design decisions and layout recommendations to old existing projects.
  - Develop innovative firmware and set standards on schematic reviews, firmware reviews and projects.
- Associate Firmware Developer | Prodigy – August 2022 to August 2024
  - 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

## Education

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

## 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