briannculberson@gmail.com References Upon Request

(513)967-7960 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