

# Logan Bryant

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**Objective:** To obtain a full-time position in the field of software/front-end development, embedded systems, or FPGA engineering.

**Education:** **Bachelor of Science in Computer Engineering** May 2023  
Rose-Hulman Institute of Technology | Terre Haute, IN | Minor in Computer Science GPA: 3.46

**Related courses:** Data Structures and Algorithms, Object Oriented Programming, Operating Systems, Practical Security, Cybercrime and Dig Forensics, Computer Networks, Intro Web Dev, Communication Networks, Computer Architecture, IoT, Advanced Dig Design & Verilog, Embedded Systems, Continuous-Time Signals

**Skills:** C, Java, C++, Python, HTML, JavaScript, CSS, NodeJS, NPM, Firebase, Verilog, Assembly, Arduino, Linux Shell\Bash, MATLAB, Cadence, PCB design, Soldering, Oscilloscopes

**Experience:** **Collins-Aerospace** | Software Engineering Intern | Cedar Rapids, IA May– August 2021, May - November 2022

- Experienced working in Agile environment, Peer review, and subversion control
- Utilized Jinja 2 template generator to produce reusable code and converting C++ into Java replication
- Created SystemC simulation modules to communicate using publish/subscribe methods with Coresim.

**Rose-Hulman Ventures** | Project Engineer | Terre Haute, IN June – August 2020

- Generated PCB designs with Cadence for production
- Conducted product hardware testing using oscilloscopes and temperature-controlled chambers
- Programmed hardware systems with MSP430 microcontrollers

**Projects:** **Microchip AVR-IoT Cellular Mini Pollution Monitoring System** Senior Project – 2022-2023

- Established backend on AWS server using Timestream
- Standalone IoT devices setup to communicate by cellular through MQTT
- Developed a dashboard using Grafana to receive data from database

**LED Matrix IoT Project** Spring 2023

- Served a user webpage made using JavaScript web-socket to connect to MQTT broker
- Prototyped using an Arduino Uno communicating serially with ESP8266 for Wi-Fi connection

**Fraternity Guide Web App** Fall 2021

- Developed using Figma mockups translated to HTML, CSS, and JavaScript
- Hosted on Firebase server and using the Firebase database for data storage
- Authentication for login and pages used for admin purposes with email API interface

**Indiana College Navigation Map** Winter 2020-2021

- Designed a map using Java graphics to implement user interface
- Traversed points calculated on cost using aStar algorithm

**Java Joust Game** Spring 2020

- Fabricated own version of Joust arcade game using Object Oriented design principles
- Programmed in Java using Java graphics with multiple map implementation and custom images

**Activities:** **Pi Kappa Alpha Fraternity** 2019-2023

- President | November 2021 – November 2022
- Vice President of Enrichment | November 2020 - 2021
- Attended seven leadership summits for personal and professional development

**CSERVE:** Career Services and Employer Relations Volunteer 2019-2022

**SGA Hall Representative** 2019-2020

**Honors:** **Lilly Endowment Scholarship Award** | County award for full tuition in Indiana | Single winner of county