

Logan Bryant

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Objective:	To obtain a full-time position in the field of embedded systems, FPGA engineering, software or front-end development		
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: IoT, Advanced Dig Design & Verilog, Computer Networks, Communication Networks, Computer Architecture, Embedded Systems, Data Structures and Algorithms, Intro Web Dev, Continuous-Time Signals, Linear Control Systems, Practical Security, Cybercrime and Dig Forensics		
Skills:	C, C++, Python, Verilog, Assembly, Arduino, MATLAB, Code Composer Studio, PCB design, Cadence, Soldering, Java, HTML, JavaScript, CSS, NodeJS, NPM, Firebase, Linux Shell\Bash		
Experience:	Collins-Aerospace Software Engineering Intern Cedar Rapids, IA	May– August 2021, May - November 2022	
	<ul style="list-style-type: none">Experienced working in Agile environment, peer review, and subversion controlUtilized Jinja 2 template generator to produce reusable code converting C++ into Java replicationCreated SystemC simulation modules to communicate using publish/subscribe methods with Coresim		
	Rose-Hulman Ventures Project Engineer Terre Haute, IN	June – August 2020	
	<ul style="list-style-type: none">Generated PCB designs with Cadence for productionConducted product hardware testing using oscilloscopes andProgrammed hardware systems with MSP430 microcontrollers		
Projects:	Microchip AVR-IoT Cellular Mini Pollution Monitoring System	Senior Project – 2022-2023	
	<ul style="list-style-type: none">Established backend on AWS server using Timestream and displayed on GrafanaStandalone IoT devices setup to communicate by cellular through MQTTDeveloped a dashboard using Grafana to receive data from database		
	LED Matrix IoT Project	Spring 2023	
	<ul style="list-style-type: none">Served a user webpage made using Paho JavaScript web-socket to connect to MQTT brokerPrototyped using an Arduino Uno communicating serially with ESP8266 for Wi-Fi connection		
	Missed Branch Instruction Buffer Research	Winter 2022-2023	
	<ul style="list-style-type: none">Conducted research using Gem5 simulator while using SSH into campus computerWrote graduate research style paper using IEEE double column format		
	FPGA Verilog Pong Game	Fall 2022	
	<ul style="list-style-type: none">Implemented a user-controlled pong game displayed on VGA monitorDeveloped a system of a controller with one-shots, clocks, counters, and HSYNC/VSYNC modules for monitor		
	TMJ Preventer Embedded System	Summer 2020	
	<ul style="list-style-type: none">Designed the layout in Cadence schematics and produced PCBs for prototypingProvided electrical signals from masseter (jaw muscle) going through gain circuit to detect muscle clenchingIncluded as inventor on patent		
Activities:	Pi Kappa Alpha Fraternity	2019-2023	
	<ul style="list-style-type: none">President November 2021 – November 2022Vice President of Enrichment November 2020 - 2021Attended seven leadership summits for personal and professional development		
	CSERVE: Career Services and Employer Relations Volunteer	2019-2022	
	<ul style="list-style-type: none">Setup and serve company sponsors for Career Fair		
	SGA Hall Representative	2019-2020	
Honors:	Lilly Endowment Scholarship Award County award for full tuition in Indiana Single winner of county		