

Austin Jones

ADDRESS: 201 S Central St, Knoxville, TN – PHONE: 615-962-3732

EMAIL: ajone239@vols.utk.edu – GITHUB: <https://github.com/ajone239>

Objective: Software Engineer with experience in Embedded Software and Cloud Development looking for cool problems to solve. Currently looking for employment starting Dec 2023.

Skills

Cloud Technologies: Docker, K8s, AWS, GitHub Actions, Postgres
Embedded Technologies: ARM MCUs, Xilinx FPGAs/MPSoCs
Languages: C, Rust, C++, Go, Shell, Python, VHDL

Education

University of Tennessee Knoxville Graduation: Dec 2021
Bachelor of Science in COMPUTER ENGINEERING GPA: 4.0/4.0

DEC 2021 | **Engineering Professional Practice Office** - University of Tennessee

AUG 2019 | *Student Ambassador*

Assist UT engineering students to improve resumes, interview/inter-personal skills, and overall professional skills. Work with other ambassadors to facilitate networking events and career fairs.

Work Experience

NOV 2023 | **PolySign** - Remote

JAN 2022 | *Senior Software Engineer*

Collaborated with many teams across multiple products and technologies to meet the often changing needs of the Crypto Market.

- Helped stand up a green field project in Rust aimed at performing fast, distributed multiparty compute signing:
 - Designed fully asynchronous architecture for distributed message signing.
 - Overhauled network stack to use Tonic gRPC over VirtioVsock Sockets.
 - Redesigned CI/CD Pipeline to minimize redundancy in builds, regression testing, and integration testing.
 - Integrated with main product as a POC.
- Contributed to Python microservice backend:
 - Redesigned feature data model to increase robustness.
 - Designed a new data flow to allow for more flexibility in the feature.
 - Found, ticketed, and worked on tech debt as it was found.
- Implemented an end-to-end POC feature across multiple projects.
- Worked on legacy C/Rust codebase to support features in other products.
- Performed monthly Dev-on-Call rotations debugging live issues across multiple environments including: dev, testing, pre-prod, and prod.
- Planned, hosted, and participated in a company wide Hackathon.
- Organized and hosted an engineering reading club.

AUG 2021	Garmin International - Olathe, KS
MAY 2021	<i>Embedded Software Intern</i>
	Developed code for microcontroller to control power on logic for an unreleased product. <ul style="list-style-type: none"> Utilized MCU to monitor main board status and determine the power state of the board. Referenced PCB schematics and MCU documentation to integrate software and hardware. Gained strong familiarity with ARM/STM microcontrollers.
NOV 2021	Siemens Molecular Imaging - Knoxville, TN
JAN 2019	<i>Electrical R&D Intern</i>
	Conduct projects, both individually and collaboratively, to provide value to the ER&D team: <ul style="list-style-type: none"> Presented findings from work to a large technical audience to demonstrate the validity of a new system architecture. Long term projects: <ul style="list-style-type: none"> Utilize a Xilinx MPSoC to test limitations of ARM Core processing vs an FPGA implementation to assess cost reductions. Used multiple Raspberry Pis with off the shelf networking hardware to conduct data path tests and compare the bandwidth with current custom solutions. Work with a team of engineers using GitLab to write various driver code for a custom Linux image. Developed Firmware, Embedded Software, and Application Software for a unit test fixture that is used during production of PET electronics. Collaborated with a fellow intern to build a GUI Application that monitored and report the status of and entire system including all sub-assemblies. Assist engineers with general tasks (e.g. wiring, testing, Python scripts, documentation).

Interests and Hobbies

- Custom Mechanical Keyboards, Basic Electrical Projects, Competitive Programming
- Chess, Go, Reading, Cooking
- Rock Climbing, Cycling, Specialty Coffee