SAM MUSSER

Eugene, OR ✉ 405.513.3736 ✉ sam.musser95@gmail.com

SUMMARY OF QUALIFICATIONS

Dependable software/computer engineer with very strong interpersonal and leadership skills.

Website: https://samuelmusser.github.io
LinkedIn: https://www.linkedin.com/in/sammusser/

Applications/Relevant Topics:

Embedded Linux, Ubuntu

Bash, Git, Gerrit, Jenkins

Android Operating System (AOSP)

Matlab, Multisim, Eagle

Programming Languages:

C, C++, Java, C#, Python

Peripherals:

I2C, SPI, GPIO, RS-232, USB

EXPERIENCE

Rosen Aviation | Software Engineer
July 2021 - Present | Eugene, OR

- Sustained and developed Rosen's internal Android Operating System across projects by writing applications, services, and plugins in **C++**, **Java** in an Ubuntu development environment
- Modified and implemented Linux kernel drivers in **C** for a video chain pipeline working in the kernel through the hardware abstraction layer and into user-space
- Built and integrated custom library for network interface control and DHCP servicing for production applications in **C#** with .NET Framework automating systems and decreasing testing time
- Led research and development on performing upgrades to new OS versions with dynamic memory allocation and incorporating enhanced security encryptions for video streaming
- Designed hardware specific software solutions for NXP's Arm Cortex series i.MX8MQ SoM
- Facilitated future ease for project revisions and file system maintenance with **Bash** scripts

Ascent Resources | Developer Intern
May 2021 – June 2021 | Oklahoma City, OK

- Scripted database transactions and performed SQL query optimization
- Overviewed network analysis with the systems administrator on ethernet protocols
- Held private sessions with the VP of IT over leadership opportunities and professional development

LEADERSHIP AND AWARDS

- Leader of the Rosen Sustainability Committee increasing the company's social responsibility, improving internal conditions, and managing group assignments resulting in BRING Rethink Certification
- Distinguished Scholar Academic Scholarship as EMHS Valedictorian with 30 ACT score
- William H. Barkow Academic Scholarship for Electrical/Computer Engineers
- Ernest W. Reynolds Endowed Academic Scholarship for Electrical/Computer Engineers

EDUCATION

University of Oklahoma (OU) | Norman, OK
Bachelor of Science in Computer Engineering | May 2021
GPA 3.24 / 4.00

- Minor in Computer Science
- National Society of Collegiate Scholars
- Study Abroad in Arezzo, Italy
- Notable Courses: Algorithm Analysis, Cryptography, Digital Signal Processing