

# SAM MUSSER

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## SUMMARY OF QUALIFICATIONS

Dependable software/computer engineer with very strong interpersonal and leadership skills.  
Steadfast source of positivity and constructive efforts with a team focused mindset.

**LinkedIn:** <https://www.linkedin.com/in/sammusser>

### Skills and Topics:

Bash, Embedded Linux, Git, OOP

Android (AOSP), Ubuntu

Circuit Design, Schematic Review

Matlab, Multisim, Eagle

### Programming Languages:

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

### Peripherals Experience:

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 (Custom command language and power management systems)
- Modified and implemented device tree and Linux kernel drivers in Raspbian and AOSP in C for a video chain pipeline featuring MIPI-CSI transmission
- 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 with Iron Python
- Led research and development on performing upgrades to new OS versions with dynamic memory allocation and incorporating enhanced security encryptions for video streaming and Widevine
- Designed hardware specific software solutions for NXP's Arm Cortex series i.MX8MQ SoM and performed board bring-up
- Facilitated future ease for project revisions and file system maintenance with Bash scripts
- Head of the Rosen Sustainability Committee resulting in BRING Rethink Certification for the company and improving internal conditions

**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

- Software Lead of the 65" Smart Display Project
- Software Lead of Cabin Management Systems and Video Streaming and Encryption R&D
- 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
- OU Journey Program: Study Abroad in Arezzo and Rome, Italy featuring Art History and Climate Change
- Notable Courses: Algorithm Analysis, Cryptography, Digital Signal Processing,