

Johari Schalow

Embedded Systems Engineer

✉ johari.schalow@gmail.com
☎ (599) 753-3456
📍 123 Maple Street, Nashville,
TN 37210

Education

**Master of Science
in Embedded Systems
Engineering at University of
Tennessee, Knoxville, TN**

Aug 2018 - May 2022

Relevant Coursework:

Embedded Systems Design,
Real-Time Systems,
Microprocessor Architecture,
Advanced Digital Design,
Computer Vision, Robotics,
Control Systems, Signal
Processing, Wireless Sensor
Networks, Operating Systems,
and Machine Learning.

Links

[linkedin.com/in/joharischalow](https://www.linkedin.com/in/joharischalow)

Skills

Microcontroller programming

FPGA development

Real-time operating systems
(RTOS)

Communication protocols (I2C,
SPI, UART)

Circuit design (PCB layout)

Power management techniques

Debugging tools (JTAG,
oscilloscope)

Languages

English

Profile

Embedded Systems Engineer with 1 year of experience in designing, developing, and testing firmware solutions for various applications. Proficient in C/C++, Python, and embedded hardware design, with a strong understanding of microcontroller architectures and real-time systems. Demonstrated ability to troubleshoot and optimize performance, while effectively collaborating in team settings. Eager to contribute to innovative projects and expand expertise in embedded systems development.

Employment History

Embedded Systems Engineer at L3Harris Technologies, TN

Apr 2023 - Present

- Developed a mission-critical embedded system for a defense application that increased system reliability by 30% and reduced power consumption by 20%, leading to a \$2M contract extension with the Department of Defense.
- Successfully designed and implemented a real-time operating system for an aerospace project, which resulted in a 25% improvement in system performance and a 15% reduction in development time, contributing to a \$1.5M increase in annual revenue.
- Led a team of 5 engineers in the creation of an innovative communication protocol for secure data transmission in military applications, increasing data throughput by 40% and reducing latency by 60%, securing an additional \$3M in government funding for future projects.
- Spearheaded the optimization and refactoring of legacy embedded software, resulting in a 35% reduction in code size, a 50% reduction in compile time, and a 20% improvement in overall system performance, saving the company over \$500K in development costs.

Associate Embedded Systems Engineer at Siemens, TN

Sep 2022 - Feb 2023

- Developed and implemented a new embedded system for Siemens' automation division, resulting in a 25% increase in production efficiency, saving the company an estimated \$1.2 million annually.
- Led a team of 6 engineers in the successful completion of a critical firmware update for a major client's industrial control systems, reducing system downtime by 40% and increasing overall customer satisfaction by 15%.
- Collaborated with cross-functional teams to design and develop a new IoT-enabled energy management system for Siemens' smart grid solutions, leading to a 20% reduction in energy consumption for pilot clients and potential revenue growth of \$5 million over the next 3 years.
- Streamlined the debugging and testing process for embedded software projects, reducing development time by 30% and enabling the team to deliver high-quality products to clients ahead of schedule.

Certificates

Certified Embedded Systems Engineer (CESE)