


## SUMMARY


Embedded Software Developer with expertise in developing and debugging software for wireless communication devices and IoT systems. Proficient in C/C++, Python, and various scripting languages. Strong understanding of embedded systems programming techniques and experience with cloud platforms such as AWS. Adept at collaborating with cross-functional teams to design, implement, and optimize scalable software solutions for real-time systems.

## EXPERIENCE

Software Engineer / Embedded Systems Developer

Innovative Tech Solutions


 Jan 2022 – Present


 San Diego, CA

- Designed and implemented embedded software components for IoT devices, using C/C++ and Python, to optimize performance and ensure compatibility with various wireless communication protocols.
- Collaborated with hardware and software teams to debug and enhance systems, improving overall efficiency by 20%.
- Developed unit testing software and automated test frameworks to validate hardware-software integration and ensure seamless system performance.
- Utilized AWS and Docker for containerization and deployment of enterprise-scale systems, ensuring scalable and secure cloud-based solutions.

Junior Embedded Software Developer

Wireless Innovations Inc.

 Jun 2020 – Dec 2021

 Remote

- Assisted in the development and debugging of software for wireless communication products, with a focus on CPEs and IoT devices.
- Contributed to the design and implementation of wireless protocol features, including SNMP and TR-069, to enhance device interoperability.
- Developed and maintained build systems using Makefiles and GDB for debugging, improving the efficiency of embedded software testing.
- Prototyped and tested multiple implementation techniques to evaluate performance, ensuring the best approach for product releases.

## EDUCATION

Bachelor of Science in Computer Science

University of California, San Diego

 2016 – 2020

## SKILLS

C/C++

Python

Embedded Systems

Wireless Communication Protocols

AWS

Docker

IoT

GDB

Makefiles

SNMP

TR-069

Unit Testing