

# Austin Guevara

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## Summary

Senior Software Engineer with over 4 years of experience in embedded systems development and wireless communication. Highly skilled in designing low-powered mobile devices for healthcare applications, with expertise in developing devices that communicate over multiple radio frequencies. Passionate about working with non-technical customers, leading engineering teams, and ensuring product success through robust testing protocols and validation. Seeking a Senior Research Engineer position to leverage my technical expertise and leadership skills.

## Work Experience

### Senior Software Engineer

Instant Care Inc., San Diego, CA | May 2021 – Present

- Led the design and development of multiple products from conception to mass production, including fall detection devices and remote triggers.
- Developing a system-wide mesh network to integrate all peripherals with a central server, enhancing connectivity.
- Collaborated with cross-functional teams to ensure product success and alignment with market needs.
- Managed and mentored a team of 1 junior engineer and 2 QA engineers, promoting collaboration and professional growth.
- Drove the implementation of robust validation testing protocols to guarantee product reliability in real-world healthcare applications.

### Undergraduate Research Assistant

Virginia Tech & Carilion Clinic, Blacksburg, VA | March 2020 – May 2021

- Sole software engineer on a project to develop a low-cost emergency replacement for ventilators.
- Utilized pressure sensors to calculate and display critical breathing statistics.
- Contributed to designing, implementing, and testing software for improving the functionality of a life-saving medical device.

## Skills

**Programming Languages:** Embedded C, Python, Zig

**Hardware Knowledge:** Microcontrollers (Microchip PIC16, Nordic NRF52, SiLabs EFR32), Raspberry Pi, Arduino

**Wireless Communication Protocols:** Bluetooth Low Energy (BLE), Z-Wave, Zigbee, Sub-GHz

**Tools & Software:** Git, SVN, Logic Analyzer, Spectrum Analyzer, Oscilloscope, Zephyr RTOS

**Miscellaneous:** Hardware/Software Debugging, Power Management, Rapid Prototyping, 3D Printing, Leadership, Communication

## Certifications

Bluetooth Low Energy Fundamentals – Nordic Semiconductor

## Education

### Bachelor of Science in Mechanical Engineering

Virginia Tech, Blacksburg, VA | 2016 – 2021