Eugene Brodsky

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Summary

Dependable and extremely enthusiastic graduate of University of California, Berkeley with emphasis in computer science. I've had some amazing opportunities to grow and learn so far and am beyond excited to see what the future has waiting for me!

Experience

MetaSense (Kinetic Reality) • Firmware Engineer
Dec 2021 - Current
Primary responsibilities lie in the design, implementation, and test of firmware for real time motion capture. Worked alongside cloud and hardware engineers to bridge the gap between hardware and SAAS infrastructure.

- Extended sensor battery life from 2 hours to 12 hours.
- Implemented star topology wireless protocol for high speed motion capture.
- Developed "dynamic linking" of wireless listening nodes for improved data throughput.
- Established firmware pipeline infrastructure.
- Improved system visibility with remote system management and logging.
- Developed test software for the bring-up of new PCB designs.
- Established internal best practices for firmware development and documentation.
- Organized work socials for team cohesion and motivation.
- Hardware: Nordic nRF52 series SoC
- Scan QR code for live demo!

Institute of Transportation Studies, UC Berkeley • Website Administrator
May 2018 - August 2020

Varsity Tutors • Tutor
June 2015 - May 2018

Skills

Software design and documentation, software testing and debug strategies, embedded power optimization, real time wireless systems, IMU sensor integration, WiFi module integration

Languages/Tools

C, Python, Java, Make, Git, logical analyzers, oscilloscopes

Education

Bachelor of Science in Applied Mathematics, 2021
University of California, Berkeley
GPA: 3.47
CS Coursework: Structure and Interpretation of Programs, Data Structures, Algorithms, Security, Numerical Analysis

Associate of Science in Mathematics, 2018
Las Positas College, Livermore
GPA: 4.0
President of Mu Alpha Theta Math Club

Website

eugenebrodsky.me