

Noah Gray

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Summary

Passionate and adaptable Embedded Systems Engineer with academic honors and a track record of excellence in computer networks and embedded systems.

Work Experience

SSD Firmware Development Intern • Intel Corporation • Bellevue, WA June 2020 – December 2020

Coordinated with Intel's data center SSD Agile Scrum Team to complete backlogged tasks

- Increased firmware efficiency by at least **20%** by supporting 64-bit compilation
- Decreased binary firmware size by **15%** to ensure compatibility with existing bootloader
- Resolved over 2000 warnings and errors on a new build target
- Improved error handling by exposing asserts hidden in firmware update path
- Received 4 employee recognition awards for exceeding manager and mentor expectations

Full Stack Developer • Thirdpool Recruiting • Woodinville, WA June 2019 – June 2020

Architected an SMS web-app that streamlines communication between recruiters and candidates

- Enabled over 100 recruiters to connect with hundreds of thousands of job seekers
- Presented status and deliverables to stakeholders ahead of schedule
- Received **100% positive** reviews on product from Thirdpool clients

Project Experience

Physical Chess AI January 2021 – June 2021

Designed, developed, and tested a chess board with a built-in A.I. opponent

- Achieved automatic movement detection using a 64-sensor matrix and firmware algorithm
- Eliminated sensor sway to produce values accurate within $\pm 5\%$ of total voltage swing

Lockheed Martin SmartSat™ Scheduling Service September 2020 – March 2021

Implemented a real-time scheduling service using Lockheed Martin's SmartSat™ SDK

- Added support for device communication and file transfer using TCP connections
- Maximized scheduling accuracy using relative and absolute real-time clocks

Involvement and Leadership

IEEE Eta Kappa Nu Epsilon Phi October 2018 – Present

Cal Poly chapter of Electrical and Computer Engineering Academic Honor Society

- Recognized as one of the **top 20%** of upperclassmen Electrical and Computer Engineers

Computer Engineering Society September 2019 – June 2021

Member of the club's project committee and education committee

- Grew club office hour attendance through effective tutoring of underclassmen
- Increased club's presence on campus by mentoring freshman Computer Engineers

Education

California Polytechnic State University, San Luis Obispo, CA September 2017 – June 2021

Bachelor of Science: Computer Engineering

- Awarded Cum Laude honors with **3.67/4.0** GPA
- President's List honors and *5x Dean's List Honors*

Relevant Classes

MPUs and *Embedded Systems*, *Systems Programming*, *Artificial Intelligence*, *Network Security*

Proficiencies

C++, C, Python, C#, Java, Assembly, Bash/Shell, Embedded Systems, Computer Networks, Object Oriented Programming, Agile Scrum, Public Speaking, Data Structures, Microcontrollers, I2C, SPI, UART, TCP/IP, CI/CD, Linux, Git, Wireshark