NICHOLAS Q BUI

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OBJECTIVE

Incoming college freshman based in San Jose who's actively seeking on-site, hybrid, and remote engineering internships in the San Francisco Bay Area. I love to learn by doing and I'm eager to explore the field of electrical and software engineering.

EDUCATION

Space Technology Engineering Academy Magnet (STEAM), Independence High School 2019 - 2023
Principal's List, GPA: 4.0
Relevant Coursework: Principles of Engineering, Introduction to CAD, Aerospace Engineering, AP Computer Science Principles, AP Computer Science A, AP Calculus AB/BC, AP Physics C (Mechanics), Elementary Statistics
Clubs/Organizations: STEM Expo (Co-Founder), Solar Suitcase (President and Electrical Engineer), MESA (President and Captain), Finance Club (Vice President), CS Club (Treasurer)

SKILLS

Software	Java, Python, HTML/CSS, Git, Android Development, Google Firebase, Computer Vision
Hardware	Microcontrollers, Autodesk Fusion, Onshape, Circuit Design, Electronics Prototyping
Soft Skills	Leadership, Accountability, Communication, Time Management
Languages	English, Vietnamese, Spanish

EXPERIENCE

SIMR Bioengineering Intern May 2022 - Aug 2022
Stanford School of Engineering and Medicine *Palo Alto, CA*

- Designed, programmed, and prototyped Apnostics, a biometric sensor system for sleep apnea diagnosis using C++, Arduino, and Autodesk Fusion
- Achieved over 97% sensor accuracy and filed a provisional patent for our prototype
- Pitched to Stanford's engineering faculty at a poster symposium

Account Receivables Aug 2019 - Present
Pro-Tech Dental Care *San Jose, CA*

- Accurately record quarterly cash, check, credit, and insurance transactions of $250,000+
- Responsible for digitizing transaction recording process

PROJECTS

ASLens Built a machine learning-based ASL interpretation device using Autodesk Fusion, Raspberry Pi, and Python. Users form ASL signs and the device uses LSTM neural networks and natural language processing to translate the signs into audible speech. Won 4th place at the 2023 MESA National Engineering Design Competition.

Emoticam Built an accessible, hands-free, digital communication tool using OpenCV and Python to convert hand gestures and facial expressions into corresponding emojis and keyboard characters. Won 1st place at the 2022 Los Altos Hackathon and qualified for Pinnacle, the Olympics of Hackathons.

FinanceLingo Created a beginner-friendly financial education mobile app using Java, Android Studio, and Google Firebase. Submitted to the 2022 Congressional App Challenge for CA-17. Awarded Certificate of Special Congressional Recognition by Rep. Ro Khanna.

CamPack Built a cloud-backed body camera using Raspberry Pi and Google Drive API. Users can quickly record threatening situations and their footage would get stored on the cloud in real-time. Won 3rd place at the 2022 MESA National Engineering Design Competition.