NICHOLAS Q. BUI

San Jose, CA

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EDUCATION

Independence High School - San Jose, CA

2019 - 2023

High School Diploma — STEAM Academy — Valedictorian — GPA: 4.4

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

Clubs/Organizations: Solar Suitcase, MESA, CS Club, Finance Club, Varsity Badminton

UC Berkeley College of Engineering - Berkeley, CA

2023 - 2027

BS, Electrical Engineering and Computer Sciences — Incoming Freshman

SKILLS

Software Java, Python, HTML/CSS, Git, Android Development, Google Firebase, Computer Vision

Hardware Microcontrollers, Autodesk Fusion, Onshape, Circuit Design, Electronics Prototyping, 3D Modeling

Soft Skills Leadership, Accountability, Communication, Time Management

Languages English, Vietnamese, Spanish

WORK EXPERIENCE

SIMR Bioengineering Intern

May 2022 - Aug 2022

Palo Alto, CA

Stanford School of Engineering and Medicine

- 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 up to \$250,000
- Responsible for digitizing transaction recording process
- Repair electronic office appliances such as printers, shredders, and computers

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.