NICHOLAS Q. BUI

San Jose, CA
nicholasqbui@gmail.com ◇ linkedin.com/in/nickkbuii ◇ personalwebsite–nickbui.repl.co

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
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 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.