

ALLAN HUIDOBRO

SEE MY WORK:

ALLANHUIDOBRO.COM/PROJECTS

CONTACT

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PROFILE

Experienced in the development and engineering of software and algorithms. Has 9 years of programming experience, 3 years in circuit design and assembly, and a history with robotics.

PROJECTS

VOLTBOARD AND VB RP2040

A split ortholinear keyboard with a circular trackpad and TFT screen, powered by an RP2040 based dev board designed to integrate with the Voltboard keyboard.

- Designed PCB schematic in EasyEDA
- SMT based
- Programmed using C++ and debugged using OpenOCD

APP-A

Android application and Bluetooth ultrasonic sensor solution designed to assist visually impaired navigate campus. Powered by an ATTINY84.

- Designed PCB schematic in EasyEDA
- Programmed using Arduino IDE
- Designed case in Blender

3D PRINTER UPGRADES

Upgraded an Ender-3 3D printer with a Voron Stealthburner, Knackender ABL, and SKR MINI E3.

- Compiling and uploading printer firmware
- Prepping and guiding wires through the machine
- Designed custom parts in Fusion 360 to ensure compatibility with upgrades

PROFESSIONAL EXPERIENCE

FREELANCE WEB DEV | 2021 - CURRENT

Built portfolio and commercial websites using React and NextJS and hosted them through platforms such as Vercel, Amazon Web Services, and Google Cloud

SKILLS

LANGUAGES

C, C++, C#, Python, Java, Javascript, HTML

SOFTWARE

GitKraken, Visual Studio Code, Arduino IDE, CLion, EasyEDA, KiCad, Visual Studio, Android Studio, Blender, SolidWorks, Fusion 360, IntelliJ

OTHER

Git, GitLab, CMake, Klipper, OpenOCD, SQL, Flutter, Linux, OpenGL, NextJS, AWS Console, Google Cloud

EDUCATION

BACHELOR OF COMPUTER SCIENCE

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE | 2016 - 2022