

Brandon Fong

Master's Degree in Electrical And Computer Engineering

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EXPERIENCE

Other World Computing - Mill Valley, CA

December 2020 - Now

Key Qualifications & Responsibilities

- Lead software development for macOS application
- Knowledge of Swift & C++ interoperability
- Write ZShell scripts for manufacturing team

Key Achievements

- Architected a scalable macOS application
- Introduced unit testing to engineering team
- Improved build processes across all projects

QuAD: Quality Air Detector - Rohnert Park, CA

48 Hour Hackathon

Key Qualifications & Responsibilities

- Architect, design and implement embedded system and firmware
- Engage closely with diverse Engineers and Entrepreneurs
- Design, implement, test, and document hardware designs.

Key Achievements

- Developed custom API software communicate with Airnow.gov
- Designed and validated sustainable board layout

EDUCATION

M.S. in Computer and Engineering Science

Sonoma State University, Rohnert Park -- August 2020 - December 2021

Thesis Topic: Real Time Automatic Music Translation on FPGA

Contribution: Genre Recognition, Feedback Learning, Music Identification, and Assistive Entertainment for those with disabilities

B.S. in Computer Engineering

San Diego State University, San Diego -- August 2015 - May 2020

Relevant Courses: Microarchitecture, Digital VLSI System Design, Signals and Systems, Embedded Programming, Digital Signal Processing

SKILLS

C/C++

Verilog/VHDL

FPGA programming

ZShell Scripting

Digital Circuits

Vivado IDE

MATLAB

Embedded Systems

AWARDS

"Most Innovative" - 48 Hour Regional Hackathon. Worked with a diverse team of Engineers and Entrepreneurs

"First Place in College Talent Show" - Singer/Songwriter award

"Best Original Song" - Winning song published to Spotify

EXTRACURRICULAR

IEEE Computer Society - Member

USCD Health - Volunteer

APSA - Executive Board

San Diego State Marching Band