

Max Robinson

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EXPERIENCE

Varsity Tutors, Orlando, FL — AP/College Tutor

OCTOBER 2021 - PRESENT

Tutored students from across the world in AP Physics 1, 2, & C (E&M + Mech). Age range of students was between 11-25 (with background check), and received high reviews from students.

Freelance Electronics Design, Orlando, FL — Computer Engineer

DECEMBER 2017 - PRESENT

Designed custom electronics and printed circuit boards (PCBs) for a wide range of clients, with end-to-end work on schematic capture, parts selection, library creation, layout, design-for-manufacture, testing, and firmware development. Range of projects available for inspection,

Orlando Science Center, Orlando, FL — Exhibit Technician

JULY 2017 - NOVEMBER 2017

Responsible for preventative and responsive maintenance to exhibits, exhibit automation rollout, assisting in exhibit improvements, light logistics work, and general purpose design and fabrication of electronic devices on short notice

Voom LLC, Orlando, FL — 3D Draftsman / Lead Welder

JANUARY 2014 - AUGUST 2016

Performed 2D and 3D drafting and parts design, design for manufacturing, panel shop manager, welding lead in charge of procedures, wiring technician, extra hand

Rose-Hulman Phonathon, Terre Haute, IN — Alumni Giving Officer

SEPTEMBER 2016 - JUNE 2017

High-value alumni and parent outreach for institutional advancement fundraising, training new employees. Consistently top-performing among gifts officers, raised over \$50,000 during my tenure, with group-leading satisfaction scores

Ixion Motors, Cambridge, MA — CTO

JUNE 2014 - AUGUST 2015

Supervised all technical design work for small automotive startup, fields used included magnetics, high frequency feedback controls, and motor design

Orlando Science Center, Orlando, FL — Senior Youth Volunteer

AUGUST 2011 - JULY 2016

Performed science demonstrations for guests, supervised lab sessions, led new volunteer orientation, designed and executed new science shows

SKILLS

AutoCAD

OpenSCAD

EagleCAD PCB Layout/Routing

Kicad PCB Design

Turn-key product design

3D Printing

MIG, Stick, & TIG Welding on Steel, SS, Aluminum

Instrumentation & Controls Engineering + Calibration

SCUBA Certified

MQTT Automation / IoT

IT Infrastructure Installation

Auto Repair

C / C++ / Python

Audio Production

Event Management

Java Proficiency

Advanced Arduino Programming

Embedded Systems Design

Basic Process Engineering

EVENTS

Florida Science Olympiad Advanced to state level and placed twice

MIT Launch Entrepreneurship Program Month-long camp at MIT for entrepreneurship, started two companies and pitched to VCs

EDUCATION

Valencia College, Orlando, FL — *ECE*

AUGUST 2019 - PRESENT

Studying for a degree in computer engineering, completed associate's degree, senior

Rose-Hulman Institute of Technology, Terre Haute, IN — *CPE*

AUGUST 2016 - MAY 2017

Studied towards a degree in computer engineering with a minor in mechanical engineering, officer of the Maker Lab on campus

NOTABLE PROJECTS

Game Show Buzzers

Ultra-low cost consumer electronics device for running in-person game shows at home. Involved extreme BOM cutting, DFM, and end-to-end product management. Developed firmware for BLE peripheral and companion iOS app, alongside multiple PCBs and injection-molded enclosures.

Ultra Low-Power Seismic Surveillance Device

Cost-optimized ultra-low power device to passively detect intrusions in security zones. Involved power-gating, dynamic wakeup triggers, and firmware optimizations for extended usage off-grid.

Deep Learning Prosthetic Data Capture System

Tightly integrated data capture and ingest system that records all muscle signals in a human arm to feed classification and intent analysis for an international team

Retro Console Aftermarket Modification

Worked with customer to bring to market a mod board for several retro consoles (SNES, Sega Saturn) that allowed internet connectivity and game archival

National Defense Aerospace Test Rig

Designed and fabricated mission-critical component testing system for the Joint Strike Fighter program, additional details unavailable

Turbine Blade Testing Skid

Custom high temperature testing solution for major power generation OEM, including extensive modeling, laser cutting, welding, and process engineering

Check Valve Relocation and Retubing

Modeling and planning of intensive tubing rerouting and connections in busy plant environment including flow analysis and bottleneck removal

Mobile Power Distribution Cart

Skid made to take 480V 3-phase power and regulate down to many 120v outlets for onsite contractors to connect to. Involved structural design and high power safety

