

# Max Robinson

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## EXPERIENCE

### **Varsity Tutors**, Orlando, FL — *AP Tutor grades 9-12*

OCTOBER 2021 - MAY 2022

Tutored students from across the world in AP Physics 1, 2, & C (E&M + Mech). Age range of students was between 11-21 (with background check), and received rave reviews from students. Completely WFH, reliable equipment personally owned.

### **Freelance Electronics Design**, Orlando, FL — *Computer Engineer*

DECEMBER 2017 - SEPTEMBER 2021

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

### **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 fabrication, 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

EagleCAD PCB Layout/Routing

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

Instrumentation & Controls  
Engineering + Calibration

SCUBA Certified

MQTT Automation / IoT

IT Infrastructure Installation

Auto Repair

C / C++

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

### **Harvard Summer Business**

**Academy** Weeklong camp at  
Harvard, started app-based  
company

## EDUCATION

### **Valencia College, Orlando, FL — ECE**

AUGUST 2019 - PRESENT

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

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

AUGUST 2016 - MAY 2017

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



## NOTABLE PROJECTS

### **Deep Learning Prosthetic Data Capture System**

Tightly integrated data capture and ingest system that records all muscle signals in a human arm to feed into a neural network for 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 3phase power and regulate down to many 120v outlets for onsite contractors to connect to. Involved structural design and high power safety