

David Jonathan Hoyt

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Experience

Northrop Grumman Engineer, System Test - Rancho Bernardo, Ca. 02/2015 - *current*

Fuel Cell Control Unit (FCU) - Developed hardware and software to integrate a Propane Fuel Cell with a Liquid Robotics WaveGlider. Coordinated validation testing of the FCU in monitoring vehicle battery levels and remote charging of WaveGliders for year long deployments at sea.

Anti-Submarine Warfare (ASW) - Integration and Deployment of Remote Airborne Acoustics Processing and Monitoring System for Sonobuoy sonar data. Air vehicles included a P10 Fire Scout surrogate and King Air 300, acted as chief payload officer during test flights. Coordinated mission demonstration efforts during ANTX 2016 Events, Newport, RI.

X-47B UCAS & NATO Global Hawk - Automated testing of both Ground Control Station and Air Vehicle systems including carrier landing and autonomous aerial refueling capabilities.

Created intellectual property on behalf of the company for connecting MIL-STD-1553 Buses via CAT5 cabling.

DroneDudes Drone Tech, Special Effects Coordinator - Los Angeles, Ca. 07/2013 - 11/2014

'Grizzle' Drone Parcel Service Gag (Parks & Rec, CBS Studios) Novo Copter (Radiant Images, Los Angeles) HeavyLift Cinema Octocopter (DroneDudes, Los Angeles & Pelopidas LLC, St. Louis) Infiniti Automotive Sepulveda Dam (On Location-Radical Media, Los Angeles) Drone Tech Film Credit-Wish I Was Here (2014)

Tesla Motors 2 Year University Intern - Fremont, Ca. 06/2011 - 09/2011 | 06/2012 - 09/2012

Media Production Specialist - New Hire Training, Factory Grand Opening (FPV/MultiAngle, FCPX, PremierePro, et. al.)

Model S Manufacturing Ramp Up - Product Transport Packaging (IMM Division, Tesla Fremont) Vendor Coordination

Mission Bell Manufacturing, Inc Project Mgmt & Accounting Intern - Morgan Hill, Ca. 06/2010 - 09/2010

LinkedIn Recommendation Available - Clint Ramsey

Tax Audit Automation Software Development, Project Scheduling and Material Management

BAE Systems 2 Year High School Intern - Santa Clara, Ca. 06/2008 - 08/2008 | 06/2009 - 08/2009

US Combat Systems, Ground Systems Division

WaterJet Debris Containment System, Digital Informational Signage System, Fabrication Facility Refurbishment

Projects

SetPowerUSA - Utilized PCB Manufacturing, 3D Printing, Laser Cutting and Engraving. Gained product design experience. Produced four versions of a USB Charging station exceeding customer specifications, manufactured 13 prototypes for validation and sale, coordinated a weekend long build effort to manufacture 25 production devices.

iFixit Drone Collaboration - Week long collaboration with iFixit's in San Luis Obispo to kick-start the drone section of their website. Created multiple teardown guides of consumer drones, was interviewed for an introductory iFixit video.

3D Printers - Assembled two 3D printers, an 8" Prusa i3 and a 12" Prusa i3v. Made improvements including extruder fan cowling, XY axis alignment correction, heated bed upgrades, and firmware customization. Manufactured my own designs.

Cal Poly SLO Admissions Dept - Worked as a Camera Operator and Video Editor for the Cal Poly Multimedia Relations Department. Filmed many on campus interviews and informational videos for student and parent

Education

California Polytechnic State University - San Luis Obispo, Ca. 2009 - 2014

BS Computer Engineering, College of Engineering

Senior Project - Automated Collision Avoidance System for Cooperative Unmanned Fixed Wing & Multirotor Aircraft

Relevant Coursework - Networks, Operating Systems, Microcontrollers and Sensors. Experience with DipTrace & Eagle, PCB Design & Manufacturing UART/I2C/SPI, MavLink, C/Java, 3D Modelling and CAD Design

Honors and Awards

Capstone Project Excellence Award 05/16/2014

Awarded for work on Collision Avoidance Autonomous Vehicles Project-RMAX UAS Group Capstone Team by the Computer Engineering Department Staff at Cal Poly, SLO at the 2014 annual CPE Banquet in May

Eagle Scout, Boy Scouts of America - Troop 200 San Jose, Ca. 2008