Paul Fjare

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Experience

Dronesmith Technologies
Lead Mechanical Engineer
Aug 2014 - Mar 2017

- Designed the airframe and overall assembly of successful quadrotor drone products.
- Sourced mechanical and electrical components and prepared designs for manufacture.
- Utilized 3d printed plastic materials for select airframe components to reduce weight and allow for rapid design iteration.
- Designed CNC milled and routed parts that served multiple functions and were subject to many design constraints.
- Worked closely with electrical engineers to integrate electronic components into products.
- Designed simple printed circuit boards in Kicad software.
- Designed a 3D printed snap-on housing for a flight controller.
- Produced high quality rendered images of various products.
- Served as primary writer of documentation for electronic and software products

Graduate Thesis
Sept. 2013 - Aug. 2014

Designed, assembled, and tested a digital controller that regulated the rotational speed of a small two-stroke engine intended to propel an unmanned aerial vehicle.

Solar Decathlon
2012-2013

Worked with a team of UNLV students, professors, and industry professionals to design and build an ultra-efficient solar powered home; one of 20 entries submitted to the US Department of Energy Solar Decathlon 2013. My primary responsibilities were the design of the domestic water supply and sanitary plumbing systems, and modeling the plumbing systems in Autodesk Revit. Team Las Vegas placed 2nd overall and 1st in the nation.

Education

Master of Science, Mechanical Engineering **Aug. 2014**
University of Nevada, Las Vegas
GPA - 3.72

Bachelor of Science, Mechanical Engineering **May 2012**
University of Nevada, Las Vegas
Major GPA - 3.36

Awarded 2nd Place - Mechanical Engineering
in 2011 Senior Design Competition

Skills

Solidworks
Autodesk Inventor
Matlab
Python
Kicad
Microsoft Excel
Autodesk Revit
Comsol CFD
Adobe Creative Suite
Autodesk 3DS Max