Paul Fjare

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Experience

Dronesmith Technologies
Lead Mechanical Engineer
Aug. 2014 - Mar. 2017

- Designed the airframe and overall assembly of a quad-rotor drone.
- Steadily improved every aspect of the airframe design based on feedback from customers and changes in the electronic systems.
- 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.
- Tested new versions of electronic hardware and software products.
- Served as primary writer of documentation for electronic hardware and software products.

Solar Decathlon
Plumbing Engineer
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.
- Designed the domestic water supply and sanitary plumbing systems.
- Modeled the plumbing and fire protection systems in Autodesk Revit.
- Collaborated with architects to seamlessly integrate the plumbing systems with the home.

Skills

• 3D CAD modeling (Solidworks, Inventor) • 3D Printed & CNC Milled Part Design • Technical Writing

• FEM Analysis (Solidworks Simulation, Comsol) • Microsoft Excel • Matlab/Simulink • Python

Education

Aug. 2014 Master of Science, Mechanical Engineering
University of Nevada, Las Vegas

May 2012 Bachelor of Science, Mechanical Engineering
University of Nevada, Las Vegas

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