

Paul Fjare

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Experience

Dronesmith Technologies

Lead Mechanical Engineer

Aug. 2014 - Mar. 2017

- Designed the airframe and overall assembly of a quadrotor drone.
- Improved the design of mechanical components based on customer feedback and part failure analysis.
- Integrated electronic systems into compact mechanical assemblies.
- Utilized 3D printed materials for lightweight production parts.
- Strengthened plastic parts by removing stress concentration points and optimizing material thickness.
- Designed CNC milled and routed parts that served multiple functions and were subject to many design constraints.
- Produced mechanical drawings to submit for part manufacturing.
- Produced BOMs and detailed cost estimates of products.
- Sourced mechanical and electrical components from vendors.
- Designed simple printed circuit boards to facilitate the integration electronic components into mechanical assemblies.
- Designed a plastic housing for an electronic hardware product that featured a tool-less snap-in assembly.
- Created detailed product renderings using Autodesk 3DS Max software.
- Created and maintained technical documentation for electronic hardware and software products.
- Produced tutorials and wrote example code for software products.
- Assisted software engineers with web development tasks.

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.
- Designed the domestic water supply and sanitary plumbing systems.
- 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