

Paul Fjare

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Experience

Consulting

June 2017 - Current

- Developing a set of plastic iPhone accessories for a client.
- Created multiple design concepts for each part and further developed the most promising designs.
- Performed prototype testing.
- Working with a manufacturer to have the parts injection molded.

Dronesmith Technologies

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 of 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.

Skills

- 3D CAD modeling (Solidworks, Inventor)
- Plastic Part Design
- CNC Milled Part Design
- 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