Paul Fjare

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Experience

Consulting
June 2017 - Current

Phone Accessory

- Developed a set of plastic iPhone accessories for a client.
- Created multiple design concepts for each part and further developed the most promising designs.
- Performed testing of CNC machined and 3D printed prototypes.
- Created photo-realistic product renderings
- Worked with a manufacturer to have the parts injection molded.

Documentation for a drone company - Auterion

- Wrote technical documentation for a drone flight controller.
- Created a detailed graphical assembly guide for a drone kit.

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

• CAD Parametric 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

Thesis Project
Designed, built, and tested a speed controller for an engine on a small aircraft. Implemented a PID control algorithm in C on an Arduino microcontroller.