

# Paul Fjare

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## Experience

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### **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 and maintained technical 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.
- Designed the domestic water supply, fire, and sanitary plumbing systems according to International Residential Code.
- Modeled the plumbing systems in Autodesk Revit and produced construction drawings.
- Collaborated with architects to seamlessly integrate the plumbing systems with the home.

## Skills

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- 3D CAD modeling (Solidworks, Inventor) • Autodesk Revit • Microsoft Excel • Technical Writing
- FEM Analysis (Solidworks Simulation, Comsol) • Matlab/Simulink • Python/Javascript/C++

## Education

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**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 2<sup>nd</sup> Place - Mechanical Engineering  
in 2011 Senior Design Competition