

# Paul Fjare

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## Experience

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### **Dronesmith Technologies**

Lead Mechanical Engineer

**Aug. 2014 - Mar. 2017**

- Designed the airframe and overall assembly a successful drone product.
- 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.
- Served as primary writer of documentation for electronic 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.

## Education

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Master of Science, Mechanical Engineering  
University of Nevada, Las Vegas  
GPA - 3.72

**Aug. 2014**

Bachelor of Science, Mechanical Engineering  
University of Nevada, Las Vegas  
Major GPA - 3.36

**May 2012**

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

## Skills

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Solidworks  
Autodesk Inventor  
Autodesk Revit  
Autodesk 3DS Max  
Microsoft Excel  
Comsol CFD  
Matlab/Simulink  
Python  
Kicad PCB Design  
LaTex