

# Paul Fjare

📍 8221 Green Clover Ave. Las Vegas, NV

☎ (702) 373-1188 ✉ pfjare@gmail.com 🌐 paulfjare.com

## Experience

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### **Dronesmith Technologies**

Lead Mechanical Engineer

**Aug 2014 - Mar 2017**

- Designed the airframe and overall assembly of successful quadrotor drone products.
- 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.
- Developed a feature in a web application using Node.js and Angular.js.

### **Graduate Thesis**

**Sept. 2013 - Aug. 2014**

Designed, assembled, and tested a digital controller that regulated the rotational speed of a small two-stroke engine intended to propel an unmanned aerial vehicle.

### **Solar Decathlon**

**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. My primary responsibilities were the design of the domestic water supply and sanitary plumbing systems, and modeling the plumbing systems in Autodesk Revit. Team Las Vegas placed 2nd overall and 1st in the nation.

## 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  
Matlab  
Python  
Kicad  
Microsoft Excel  
Autodesk Revit  
Comsol CFD  
Adobe Creative Suite  
Autodesk 3DS Max