**Jason Savery**

email: contact@jsave.me – cell: (209) 565 2882 – portfolio: jsave.me

**Mechanical Design Engineer**

**SKILLS**

**Software:** 2D/3D Modeling CAD, Solidworks, Creo Elements/Pro (Pro/ENGINEER), XFOIL, Python, MATLAB, MATHCAD, LabVIEW, Excel, Linux, Github

**Equipment:** Multimeters, Oscilloscopes, Soldering, 3D printers, Hand and Power tools, Mill, Lathe, Band saw, MIG Welders

**Design Experience:** Prototyping, Sheet metal fabrication, Welding, CNC machining, Wiring harness, Interconnect, 3d printed plastics, Mechanical and Electromechanical assemblies, Aerospace vehicle system design GD&T, Bill of Materials, DFM, DFA, PDM, FEA

**EXPERIENCE**

Essess Inc. Boston MA Nov. 2014 – Jul. 2016

**Electromechanical Design Engineer** (contract)

* Designed, prototyped and implemented mechanical parts to mount sensors and other electrical components to vehicle roof for drive by thermal data acquisition
* Built and maintained complete library of parts using Solidworks.
* Parts created using a combination of sheet metal, welding, 3d printed parts, and sourced parts
* Created documentation including bill of materials, machine drawings, assembly instructions, schematics, and wiring diagrams
* Interfaced directly with vendors to fabricate parts to specifications and ensure the system was delivered on time
* Hands on assembly and manufacturing of different parts of the system including roof, sensor box, and trunk assemblies.
* Worked with multidisciplinary engineering team including electrical and computer engineers to integrate different parts of the system together

UML AIAA Design Build Fly Lowell MA Sept. 2013 – May 2014

**Propulsion Lead**

* Led the propulsion and controls team to design and optimize the power plant for a radio controlled fixed-wing airplane
* Designed and performed tests using the university wind tunnel to size and characterize the propulsion system for maximum performance
* Resulted in fast, lightweight, and competitive plane flown in Wichita KS for the AIAA Design Build Fly competition against other teams from across the world

**EDUCATION**

**University of Massachusetts Lowell** Lowell MA Graduated Bachelor of Science in Mechanical Engineering BSME May 2014

**Relevant Coursework:** Design of Composite Materials, Aero/Wind Design, Fluid Mechanics, Ocean Engineering, Dynamics Systems, Heat Transfer, Linkage Design, Design of Machine Elements.