

# Jason Savery

test

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## SKILLS

### Mechanical Design

Sheet Metal Cast Metal  
Cable Assemblies Wire Harness  
Machined Parts GD&T DFMA  
DFA Rapid Prototyping

### Solidworks CAD

Design Sheet Metal Drawings  
PDM Administration Simulation  
AutoCAD Fusion360

### System Design

Component Selection Troubleshooting  
Root Cause Analysis Documentation  
Requirements Management

### Engineering Management

Process Design Vendor Management  
NPI Management Manufacturing  
Quality Management Bill of Materials  
Project and Program Management

## INTERESTS

3D Printing Home Automation  
Hydroponics Cooking  
Raspberry Pi

## WORK EXPERIENCE

### RL Controls

(January 01, 2019 - Present)

Mechanical Engineer

Mechanical engineer responsible for design, prototyping, and manufacturing of custom mechanical parts for the public transportation industry.

- Designed parts using Solidworks to integrate electronic systems into railcars, buses, and wayside infrastructure
- Parts designed to meet or exceed rigorous railway standards such as EN50155
- Created design, project, and manufacturing documentation including wire run tables, bill of materials, work instructions, and test plans
- Led NPI processes to release product and project level BoMs
- Designed, maintain, and administer Solidworks PDM implementation and company-wide part numbering scheme
- Implemented numerous engineering processes and automation to improve quality and reduce lead time for completing projects
- Worked closely with multidisciplinary engineering team to deliver products with typically accelerated timelines

🔗 <https://rlcontrols.com>

### STV Inc

(July 01, 2018 - December 31, 2018)

Systems Integration Specialist (contract role)

Reviewed system wide design documentation for the MBTA Green Line Extension Project (GLX) including civil, mechanical, electrical, communications, and other systems. Managed requirements traceability matrix (RTM) and interface control documents (ICD).

### Yaskawa - Solectria Solar

(September 01, 2016 - June 30, 2018)

Mechanical Engineer

Responsible for the mechanical design and sustaining of solar inverters and string combiners ranging between 600V and 1500V with power output up to 750kW.

- Tasked with design of mechanical parts including bus bars, wire harnesses, sheet metal enclosures, and component layout of new and legacy products
- Led sustaining tasks including new model release, customer requests, customer service, and cost savings initiatives on 10 years of legacy and active products deployed in the field
- Designed, built, tested, received UL compliance marks, and released new products sold in USA

🔗 <https://www.solectria.com>

### Essess, Inc

(December 01, 2014 - June 30, 2016)

Mechanical Design Engineer

Assisted with designing, prototyping, and deploying a car-based thermal surveying equipment.

## EDUCATION

### University of Massachusetts Lowell

(September 01, 2010 - May 31, 2014)

Mechanical Engineering

Design of Composite Materials, Aero/Wind Design, Design of Machine Elements, Fluid Mechanics, Heat Transfer, Dynamic Systems, Linkage Design, Ocean Engineering

## PROJECTS

### Design, Build, Fly Competition

(September 01, 2013 - May 30, 2014)

Capstone project and competition

Designed and flew large remote controlled aircraft for intercollegiate competition. Led controls and drivetrain team to ensure aircraft had most available power with lowest weight