

Jason Savery

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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