

Jason Savery

Greater Boston
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https://jaysave.com

Skills

Product Design

Sheet Metal, Cast Metal, Cable Assemblies, Wire Harness, Machined Parts, GD&T, DFMA, DFA, Rapid Prototyping, 3d Printing, Materials Selection, Concept Design, Cost Reduction, Statistical Analysis, Tolerance Studies, DFM

CAD/Solidworks

Design, Sheet Metal, Drawings, PDM Administration, Simulation, Flow, Thermal, Fusion360, Onshape

System Design

Component Selection, Troubleshooting, Root Cause Analysis, Documentation, UL/ETL Certification, Requirements Management, Specifications, Verification Testing

Engineering and Process Management

Process Design, Vendor Management, NPI Management, Manufacturing, Quality, Bill of Materials, Project and Program Management, Arena PLM Admin

Interests

3D Printing	Home Automation
Hydroponics	Cooking
Tabletop and Board Games	Raspberry Pi

Experience

Dandelion Energy

Sr. Mechanical Engineer
https://dandelionenergy.com

May '22 to Feb '25
Somerville MA

- Responsible for design from concept to production of two generations of geothermal heat pump systems.
- Implemented and administered Arena PLM, Solidworks PDM, and a Jira ticket systems for several engineers for efficient collaborative work
 - Designed and created documentation for manufacturing of heat pumps using sheet metal, injection molded plastic, bent copper tubing, foam insulation, and component integration from manufacturing drawings to system level bill of materials
 - Oversaw growth of mechanical team from being sole ME to 4 team members
 - Introduced manufacturing process improvements include system level manufacturing test fixture design and leak detection. Worked closely with manufacturing partners and engineers to implement this
 - Led development of A2L refrigerant safety mitigation design including low cost methods for meeting safety requirements by replacing expensive refrigerant detecting sensors with low cost switches
 - Safety certified two heat pump product lines to UL 60335-2 40

RL Controls

Mechanical Design Engineer
https://rlcontrols.com

Jan '19 to May '22

- Responsible for design, prototyping, and manufacturing of custom components for the public transit industry
- Integrated electronic and RF systems into railcars, busses, and wayside infrastructure
 - Designed parts to exceed rigorous railway standards including EN50155
 - Created design, project, and manufacturing documentation
 - Implemented and maintained Solidworks PDM and company-wide part numbering scheme
 - Implemented engineering processes and automation to improve quality and reduce lead time for completing projects

STV inc.

Systems Integration Specialist (contract role)

Jul '18 to Dec '18

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

Mechanical Design Engineer
https://solectria.com

Sept '16 to Jun '18

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

Essess inc

Mechanical Design Engineer

Dec '14 to Jun '15

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

Education

University of Massachusetts - Lowell
Mechanical Engineering

Sept '10 to May '14
BSME