

**Career Summary:** I am a problem solver / solution creator and optimizer of systems. Being an Industrial Engineer with 2 years of experience, I have holistically analyzed systems to optimally manufacture products and eliminate wastefulness within a low volume/high mix critical parts manufacturing industry. The majority of my experience comes from developing efficient, repeatable, and cost effective processes with a mix of people, materials, energy and information. I have significant software experience with several SQL databases that allow scheduling and planning to be done efficiently and effectively. Knowledge of CAD programs allows me to design fixtures to improve the manufacturing process. My experience with value stream mapping and simulation software has allowed me to make an optimized layout of production processes and a profitable manufacturing environment with a long-term vision. I enjoy the continuous improvement of manufacturing systems and designing products/processes for manufacturability. I have a passion for Space, renewable/sustainable energy, robotics and business development.

**EM Industries                      Manufacturing Engineer - Manufacturing                      Fremont, CA                      10/2018 – Present**

**Company Overview:** FMI is recognized as a premier solutions provider. We specialize in build to print, precision machined components, engineered thermal spray coatings, anodization and thermal sprayed electrostatic chucks. We provide customers with leading-edge support from prototype to production, and a progressive approach in solving your most difficult challenges.

- Developed a process that added to the company's capabilities.
- Assisted in the onboarding of a 5-axis robotic arm with different end-effectors.
- Created solid models of fixtures on Autodesk Inventor.
- Created and improved manufacturing processes and documented the Standard Operating Procedures (SOP) and Operational Method Sheets (OMS) for all products manufactured - followed by training.
- Created engineering documentation for and processed SPSs, SNFs, and ECOs.
- Set up cleanrooms qualification procedures. Summarized data for high level management.

**Therm-x                      Manufacturing Engineer - Manufacturing                      Hayward, CA                      8/2016 – 10/2018**

**Company Overview:** Therm-x delivers thermal solutions incorporating vertical integration capabilities consisting of Designing and testing, CNC Machining, Metal Joining, Sheet Metal Manufacturing and an integration of these disciplines with Electro-Mechanical Assembly. ISO9001 and AS9100 certified.

- 6S Implementation, workflow optimization, value stream mapping, minimize the 7 wastes, SPC analysis, process capability analysis, FMEA, CAPA, KPI metric summarizing for management and a solid ERP systems knowledge.
- Improved processes to eliminate defects of products that go through many operations with Copy Exact procedures in place.
- Created ROI analyses for equipment and cost comparisons of different methods of manufacturing to pick the most cost effective and efficient process.
- Led large and intricate projects to timely completion through careful planning and a full understanding of requirements.
- Communicate manufacturing shortfalls and ways to improve existing processes to management and staff.
- Work with management on the capabilities needed in production equipment and the procurement of machines to help in the overall manufacturing process - followed by setting up and documenting procedures.
- Developed and documented procedures for the entire company to automate a ticket system in an SQL database, and manage it. Rolled this out internationally.

**Lockheed Martin                      Industrial Engineer Intern - Facilities                      Sunnyvale, CA                      6/2015 – 9/2015 (3 mo.)**

- Facility Infrastructure Condition Assessment (FICA) of building infrastructure worth \$100 million for future capital allocation.
- Worked across different business departments of the Space Systems Company to acquire diverse information for critical infrastructure needs.
- Developed factual and entertaining safety videos pertaining to frequently occurring safety incidents based off of data I acquired through the EHS department.

**Education, Professional Memberships, & Software Experience:**

- BS Industrial Engineering, California State University East Bay, Hayward, CA, 2016
- **Lean Experience:** Kanban, 5S, SMED, DOE, FIFO, 7 wastes, cost comparison analysis, Value Stream Mapping, Simulation
- **Software Experience:** Autodesk Inventor, MiniTab, Excel, Word, Powerpoint, MS Project, Outlook, Visio, JMP, Microsoft Access, Sage and Vantage.
- **Simulation Software Experience:** Pro Model
- **Programming Experience:** C++, SQL Database

**Volunteer Experience:**

- 2016 President - Institute of Industrial and Systems Engineers (IISE)
- 2016 Marketing Director - Institute of Electrical and Electronics Engineers (IEEE)
- 2015 Operations - Operations Leader for Startup Weekend