

SAMIR ITANI

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EDUCATION

California State University, Long Beach
Master of Science in Mechanical Engineering
Bachelor of Science in Mechanical Engineering

May 2019

May 2016

OBJECTIVE

Results oriented engineer with experience in multiple industries, seeking to obtain an engineering position where I can apply the experience I've gained in manufacturing processes, design, and reverse engineering in a related field.

EXPERIENCE

WET Design - Burbank, CA

Nov 2019 – Present

Manufacturing Engineer

- Working heavily with Metal Fabrication, Plastic Injection Molding, Vacuum Forming, Machining, and Welding.
- Developing and standardizing new processes for multi-level product for production readiness.
- Implement Kaizen principles to improve product flow and part traceability throughout the shop and warehouse.
- Developing capacity and scheduling plans to take products from development to production.
- Developing work instructions and assisting in lead process development teams.
- Creating standard work-order instructions for entire product lines through multiple departments.
- Troubleshoot production process related issues and communicating as liaison between product engineers and machine operators.

Sierra Alloys Company - Irwindale, CA

Aug 2018 – Nov 2019

Production Control Planner

- Establish and maintain the forging planning parameters are in line with customer demand, inventory targets and manufacturing practices.
- Planning and creating jobs to support the production plan for assigned products including customer requirements, material requirements, and adjust jobs as required to align with the production schedule.
- Analyze, plan, and schedule production and inventory flow, and expedite orders based on material availability, machine capacity, and other manufacturing and sales constraints with extensive use of Axiom ERP system.
- Implement the use of Metrascan 750, VX Elements, and PolyWorks MS 2019 for scanning and inspecting forged titanium bars for quality inspection and non-conformance resulting in improved awareness and quality of forged product.
- Develop instructions and procedures for training of quality inspectors to properly utilize the Metrascan, VX Elements, and Polyworks from calibration stage to saving the final part.

Industrial Parts Depot - Torrance, CA

May 2017 – Aug 2018

Mechanical Engineering Associate

- Designed 3D models and 2D drawings for NPD projects of diesel engine parts such as pistons, skirts, liners, gaskets, seals, and hardware using SolidWorks.
- Lead the reverse engineering of several components of an oil cooler NPD project along with updating its 3D models and 2D drawings with proper BOMs and GD&T on an individual and assembly level.
- 3D printed parts on Ultimaker 2 Extended for fit testing purposes to save on time and cost of manufacturing and outsourcing.
- Supported the QA Department with first article inspection using calipers, micrometers, height gauges, Talysurf, CMM, optical comparator, and test indicator.
- Review vendor 2D drawings using IPD standards and GD&T specifications for drawing approval process.
- Evaluate and approve design changes, material analyses, specifications, and drawing releases using IPD standards.

Creative Aero Engineering Solutions - Buena Park, CA

Oct 2015 – May 2016

Mechanical Engineering Intern

- Conducted calculations and research to determine the number of brackets and fasteners needed for the mounting of a wing and fuselage model to a wind tunnel.
- Designed models and prepared fuselage and wing molds for machining and simulations including FEA and CFD.
- Modeled composite articles using SolidWorks for printing on a Multi-nozzle Composite 3D Printer.
- Researched and designed a fully parametric pressure vessel CAD model using SolidWorks that was utilized in the company's ongoing NPD project.

SKILLS

- **Software:** SolidWorks, CATIA V5, NX 8: Solid Modeling, Assemblies, and Drafting; Minitab, Matlab, PolyWorks MS 2019, VXEelements, Microsoft Office Suite, Mac OS and Windows OS.
- Additive manufacturing, design, and rapid prototyping. Use personal 3D printer in spare time including maintenance, troubleshooting issues, and calibrating machine.