

SHRIYA CHETAN PATIL

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Mechanical Design Engineer with project management background seeking job opportunities. Professional with more than 3 years of experience in CAD modeling, product development. Recently acquired Fundamentals of Engineering exam passing certificate. Collaborative team player with a proven track record of delivering multiple and concurrent projects in fast-paced environments; driving production efficiency through qualitative analysis and process redesign.

EDUCATION

University of Cincinnati (CEAS) – Cincinnati, OH	2017 – 2021
Master of Science: Mechanical Engineering	GPA: 3.5/4.0
Thesis: Topology optimization methods for Additive Manufacturing Process	
Professional Membership: Society of Women Engineers (SWE)	
V.J.T.I. – Mumbai, India	2010 – 2014
Bachelor of Technology: Mechanical Engineering	

CORE COMPETENCIES

<ul style="list-style-type: none">• Prototyping• Design Failure Modes and Effects Analysis (DFMEA)• Budgeting	<ul style="list-style-type: none">• Mechanical Engineering• 2D & 3D Modeling• Schematic Development• Safety Compliance	<ul style="list-style-type: none">• Root Cause Analysis• DFM & DFA• FEA• Product Development
Software Skills:	SolidWorks, Pro-E/Creo, CATIA V5, AutoCAD, ANSYS Workbench, MATLAB	
Programing Languages:	C & C++, RobotC, Python	
Certifications:	Six Sigma: Yellow Belt Passed Fundamentals of Engineering Exam 2020 (Virginia Board), Awaiting Engineering Intern certification	

PROFESSIONAL EXPERIENCE

Design Engineer	Jul 2015 – Jun 2017
Larsen & Toubro Limited – Pune, MH, India	
<ul style="list-style-type: none">• Designed & engineered 4 types of hanger doors, 3 types of helicopter traversing systems & helicopter grid design for the Indian Navy and weapon systems & land bridge assemblies for the Indian Army• Implemented GD&T and stack up analysis for all designs, remodeling, redesign, and prototyping products• Achieved 5% cost and 20% production time reduction by implementation of alternate production processes & design optimization• Modified part design for better functionality as well as simplification of assembly process• Standardized parts across assemblies so the same part can be used for multiple assemblies, facilitating large scale production and faster inspection methods• Developed primary level prototype for components of pneumatic systems for helicopter traversing system• Redesigned and replaced obsolete parts or assemblies from old projects with cutting edge and cost-effective alternatives• Evaluated and audited stainless steel thermal spray coating for aluminum components and replaced heavy stainless-steel parts with light aluminum parts which reduced production time by 50%	
Quality Assurance and Control Engineer	Jul 2014 – Jul 2015
Larsen & Toubro Limited – Pune, MH, India	
<ul style="list-style-type: none">• Implemented Production Part Approval Process (PPAP) for optimization and increased acceptance rate by 40% at final inspection• Led training for production shop staff, shop floor quality control personnel and outsourced vendors• Achieved up to 90% Part acceptance rate by implementation of FMEA and optimized production processes including design simplifications & introducing inspection check points• Led a cross functional team with Project management and shop floor to increase acceptance rate for products by 50%• Designed different in-process inspection tools like templates and fixtures for quick and efficient inspection for labor saving• Designed assembly fixture which doubled as inspection fixture for bridge assembly• Guided team members with manufacturing process control methodologies and lean principle analysis• Worked closely with different end users/clients for satisfactory in-house trails and vendor site inspections	
Trainee Supervisor	May 2014 – June 2014
Taskar Engineers Private Limited – Nashik, MH, India	
<ul style="list-style-type: none">• Achieved 10% Cycle time reduction for Sheet Metal Fabrication through supply chain management by optimized part handling	
Trainee	May 2013 – June 2013
Technophilia Systems Private Limited – Mumbai, MH, India	
<ul style="list-style-type: none">• Crafted Arduino Robot with RobotC coding: smart phone-controlled Arduino 4-wheel robot which moves along pre-marked path	