

Pranav Damodaran Gopalakrishnan

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EDUCATION

Northeastern University, Boston, Massachusetts

Expected graduation Aug 2023

*Candidate for Master of Science in **Engineering Management***

Relevant Coursework: Product Development, Project Management, Supply Chain Engineering, Deterministic Operation Research, Economic Decision Making, Engineering Probability and Statistics

PSG College of Technology, India

Jun 2021

*Bachelor of Engineering in **Robotics and Automation***

Relevant Courses: Product Strategy and Operations, Strength of Materials, Robot Kinematics and Dynamics

TECHNICAL SKILLS

Certifications	:	Six Sigma-Green Belt (IISE), Engineering Meterology, Robotic Process Automation
Statistical and Analytical Tools	:	Microsoft Excel, SolidWorks, Creo, AutoCAD, Minitab, Ansys, Catia, Lingo
Business Intelligence	:	Tableau, SAP WMS, Data Pine, Microsoft Power BI, Tally ERP9
Lean Manufacturing Skills	:	5S, Kaizen, Lean and Agile Manufacturing, Lean Six Sigma, Communication
Core Competencies	:	Product Design, Product Management and Process Improvement

PROFESSIONAL EXPERIENCE

Entappia, Newark, California

Jan 2021- Jun 2021

Product Management Intern (remote)

- Supported Real-Time Locating System (RTLS) installation in a 30,000sq.ft. factory floor to perceive real-time contextual assets data to maximize business production time by improving throughput of product/service flow and avoiding non-value added tasks
- Accelerated inventory operations by developing dashboards to search and locate each part inside the warehouse using RTLS
- Implemented dashboards to assess and determine forecast accuracy and also optimize inventory stocking
- Expanded the use case of RTLS for a Covid contact tracing app to trace people who were in contact with the infected person

Sulochana Spinning Mills, India

June 2018 – Dec 2020

Manufacturing Engineer

- Analyzed manufacturing process, raw material, and equipment usage for polyester fiber manufacture from PET bottle recycling
- Optimized plastic coloring agent's usage by implementing Kanban & 6S lean methods, fortifying profit by 4%
- Identified inventory inconsistencies and implemented solutions to complicated problems by employing quantitative data and Excel Pivot Tables to speed material delivery and engage with cross-functional teams. Decreased logistics costs by 10% by shipping in bulk
- Built an inventory model using demand analysis for effective procurement decisions, lowering inventory holding costs by 11%
- Responsible for the logistics of 400 product consignments sold to 200 customers worldwide
- Suggested the procurement team by utilizing Gantt Charts to assist the company in selecting the best polyester manufacturing equipment worth 800K\$ in accordance with ISO and cGMP criteria through effective market analysis
- Streamlined and reduced supply chain throughput cycle time by 10% as a result to avoiding non-value added tasks

Singapore University of Technology and Design, Singapore

May 2019 – July 2019

Product Development Intern

- Created alternative wheel pattern using Solidworks and 3D printed for wet/dry robot, increasing traction by 22%
- Developed a magnetic wheel mechanism for the contact traction forces in a ship hull cleaning robot
- Improved P1 & P2 2020 robot prototypes and proposed changes for P3 version, reducing irresolute flaws
- Designed and prototyped a glass cleaning robot to perform vacuum pressure testing and improve vertical motion performance

OTHER EXPERIENCE

Northeastern University, Boston, MA

Dec 2021 – Apr 2022

Information Technology Support Technician

- Supported more than 500 customers with technical solutions over the phone with a customer satisfaction rating of 4.7/5.0
- Maintained customer accounts by reviewing and updating confidential information on the database using ServiceNow and PowerBI
- Provided technical support to campus networks and technology through the Info Commons desk, incoming calls, emails, and chats

ACADEMIC PROJECTS

Improvising Traceability of Perishable Food Supply Chain

Jan 2022 – Apr 2022

- Investigated use of unique RFID tags on fresh products and perishables, increased transparency by 60%
- Enhanced tracking of commodities by updating outbound and inbound details from farmers and suppliers for better transparency
- Developed an Integrated Interpretive Structural Model (ISM) that helps prioritize and process items depending on their shelf life

Transparent Facemask – Product Development and Marketing ([product catalogue](#))

Feb 2020 – Apr 2020

- Designed silicone transparent facemask using with replaceable N95 filter cartridge in compliance with FDA standards
- Prototyped with 3D printers using PLA and ABS to arrive at an ergonomic design after thorough market analysis and customer survey
- Successfully pitched the product to healthcare organizations and ran crowdfunding campaigns to acquire \$20,000 in crowd-funding