

Pranav Damodaran Gopalakrishnan

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EDUCATION

Northeastern University, Boston, MA

Expected graduation May 2023

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

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

PSG College of Technology, India

May 2021

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

Relevant Courses: Robot Process Automation, Strength of Materials, Pneumatic Systems, Product Design and Management

TECHNICAL SKILLS

Certifications	:	Six Sigma-Green Belt (IISE), Engineering Meterology, Robotic Process Automation
Statistical and Analytical Tools	:	Microsoft Excel, Google Analytics, Minitab, Ansys, Catia, Solid Works, Lingo
Software Skills	:	Tableau, Python, C++, Java, Microsoft Power BI, MS Powerpoint
Lean Manufacturing Skills	:	5S, Kaizen, Lean and Agile Manufacturing, Poka-Yoke, Lean Six Sigma
Core Competencies	:	Hardware Design, Prototyping, Battery Systems and Failure Analysis

PROFESSIONAL EXPERIENCE

Entappia, Newark, CA

Jan 2021- Aug 2021

Associate Operations Manager

- Installed Real-Time Locating System (RTLS) in a 30,000 sq.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
- Developed dashboards to assess and determine forecast accuracy, as well as to optimize and affect inventory stocking
- Expanded the use case of RTLS technology for contact tracing application that traces people who were in contact with the infectant

Singapore University of Technology and Design, Singapore

Jun 2019 – July 2019

Robotic Research Engineer Intern

- Developed a magnetic wheel mechanism for the contact traction forces in a ship hull cleaning robot that is used to control biofouling
- Designed and prototyped a glass cleaning robot to perform vacuum pressure testing and improve vertical motion performance

Evergreen Solar Systems, India

May 2018 – Aug 2018

Renewable Systems Engineer Intern

- Led a team of four engineers to build 1kW portable off-grid solar unit, which was then deployed in a government-aided rural school
- Architected hexagonal shaped solar panels which increase solar cell density and minimize packing costs by 10% per solar panel
- Reduced solar battery discharge wastage by 20% by replacing lead acid batteries with lithium ion batteries

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

Sulochana Spinning Mills, India

Aug 2020 – Dec 2020

Associate Project Manager

- Suggested the procurement team by utilizing Gantt Charts to assist the company for selecting the best polyester manufacturing equipment worth 800K\$ in accordance with ISO and cGMP criteria through effective market analysis
- Improved delivery performance and lowered logistics costs through Material Requirement Planning to follow Part Period Balancing
- Built an inventory model using demand analysis for effective procurement decisions, lowering inventory holding costs by 11%

ACADEMIC PROJECTS

Factory Floor Optimization, Entappia, CA

May 2022 – July 2022

- Created 10,000 sq.ft. floor plan for manufacturing industry considering lean techniques which resulted in 20% faster work flow
- Conceived a dashboard model to represent the value stream using asset tracking; eliminated unnecessary waiting time

Improving Traceability of Perishable Food Supply Chain, Northeastern University, MA

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

Logistics Planning for Battery Manufacturer, Northeastern University, MA

Dec 2021 – Mar 2022

- Provided a strategic plan based on initial market analysis to capture the maximum market to maximize profit
- Located facilities both local and regional utilizing ZIP codes and addressed maximal covering problem