

NEEL ARVIND DESAI

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SUMMARY

Logistics packaging engineer at a high-volume Volvo Group truck plant, working across supplier packaging compliance, receiving and material flow, and plant-floor process improvement. I turn supply-chain data nobody can read into tools that read it automatically - automated label verification, station design auditing, and shipping-notice validation now used across four sites. Capital projects run end to end, from requirements and vendor RFQ through cost and ROI justification.

EXPERIENCE

Logistics Packaging Engineer

Jun 2025 - Present

Mack Trucks (Volvo Group), via ALTEN Technology - Macungie, PA

- Own supplier packaging, labelling, and advance shipping notice (ASN) and electronic data interchange (EDI) compliance for inbound components - evaluating pack designs for transport durability, part protection, and handling, writing the standards, and closing non-conformances with Quality, Receiving, Operations, and suppliers.
- Design and build in-house logistics tooling: an offline station design verification tool that audits physical bay layout against engineering drawings and writes approved changes back to the controlled design record, and a Python/OpenCV pipeline that verifies inbound part labels automatically.
- Analyse receiving, inventory, and material flow data across four plant sites in Excel, Python, and Power BI; report on dock-to-stock performance and recurring exception drivers, and convert findings into workflow changes and supplier corrective actions.
- Run capital projects end to end - requirements definition, vendor RFQ and technical evaluation, cost estimating, and ROI justification - including an automated vision inspection case modelled on 470,000 units per year, presented to plant leadership.

Program Manager

Oct 2023 - May 2025

Northeastern University, Institute for Experiential Robotics - Boston, MA

- Designed and deployed a QR-code asset tracking workflow on Microsoft Power Platform, tagging shared hardware and giving the lab one record of what equipment existed, where it was, and who held it.
- Managed hardware project timelines, build readiness, and operational handoffs across cross-functional research teams.
- Led assembly, integration, and functional testing of a drone cage system, writing the build and safety procedures that made the work repeatable for other operators.

Venture Co-op, Product Development

Jul 2022 - Dec 2022

Sherman Centre for Entrepreneurial Studies, Northeastern University - Boston, MA

- Defined product requirements from 20 user interviews and 300+ survey responses, prioritising design iterations against measured user need.
- Coordinated prototype development across five sprints, aligning requirements, suppliers, schedules, and test feedback.
- Designed a temperature-controlled beverage product in SolidWorks and validated it with computational fluid dynamics, reaching a 10 degrees Celsius temperature drop on the first proof of concept.

EDUCATION

PhD, Business - Supply Chain Management with AI - University of the Cumberland, Williamsburg, KY

In Progress

MS, Engineering Management - Northeastern University, Boston, MA | GPA 3.78/4.0

Sep 2021 - Aug 2023

BTech, Mechanical Engineering - SRM Institute of Science and Technology, Chennai, India

Jun 2017 - May 2021

Graduate Certificate, Entrepreneurial Studies - University of California, Berkeley, CA

Jan 2020 - May 2020

CERTIFICATIONS

Lean Six Sigma Green Belt | Certified Scrum Product Owner (CSPO), Scrum Alliance | HarvardX Leadership

SKILLS

Packaging and Product Protection: supplier packaging design and validation, part protection and dunnage, transport durability, pack and label standards, advance shipping notice (ASN) and electronic data interchange (EDI) compliance including EDIFACT and X12, receiving readiness

Logistics and Material Flow: plan for every part (PFEP), line-side material flow and replenishment design, dock-to-stock optimisation, inventory accuracy and data integrity, domestic freight modes (parcel, less-than-truckload, full truckload), ERP and material planning data flows

Data and Tooling: Python (pandas, OpenCV), Excel, Power BI, SQL, operational metrics and dashboard reporting, Microsoft Power Platform, machine vision (Cognex), desktop tool development

Projects, Process and Quality: requirements definition, vendor RFQ and technical evaluation, cost estimating, ROI and payback justification, SOP and work instruction development, Lean Six Sigma Green Belt, DMAIC, root cause analysis (8D, 5 Whys, fishbone), kaizen facilitation, FMEA, ISO 9001, Agile and Scrum (CSPO), SolidWorks, AutoCAD