AKASHDEEP GOPINATH

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SUMMARY

Engineering Management graduate with **2+ years** of experience leading cross-functional engineering programs focused on part definition, product changes, and NPI execution. Delivered CAD-driven initiatives by coordinating mechanical design, manufacturing, and supply chain teams to improve part accuracy, documentation quality, and rollout readiness. Deep experience in BOM governance, configuration control, and PLM workflows, enabling reliable part identification and downstream manufacturing execution. Technically fluent in **3D CAD (Creo, SolidWorks, NX)** and GD&T, with a strong ability to translate engineering data into actionable business outcomes. Data-driven project manager with demonstrated strength in risk management, stakeholder communication, and continuous process improvement.

EDUCATION

- **Purdue University** — *West Lafayette, Indiana, USA*
  MS in Engineering Management (IE Focus) — ***August 2023 - May 2025***
- **VIT University** — *Tamil Nadu, India*
  BS in Mechanical Engineering, GPA: 3.53/4 — ***August 2019 - May 2023***

PROFESSIONAL EXPERIENCE

Program Manager (Supply Chain and Manufacturing) - Carrier Global Corporation ***June 2025 - Present***

- Owned the beta rollout of an AI-enabled scheduling solution by integrating **customer demand**, part availability, and production capacity, improving cross-functional coordination while **mitigating inventory shortage** during production.
- Translated real-time material usage, throughput, and capacity data into **program schedules**, enabling risk-aware release timing decisions and leadership visibility into constraints impacting part readiness and delivery.
- Led field-deployment readiness for replacement components launching a QR-scan dispatch workflow reducing dispatch cycle time by 40%, and increasing on-time delivery by 30%.
- Executed **5+ engineering changes** and baseline updates across four assembly lines, coordinating CAD updates, tooling readiness, and material alignment to ensure accurate part definition and on-time program releases.

Technical Program Management Co-Op - Carrier Global Corporation ***August 2024 - December 2024***

- Owned program execution for a new strip-guide CAD design, managing cross-team approvals, drawing revisions, BOM updates, and implementation timelines.
- Installed and validated **45+** predictive sensors on automated equipment, using reliability data to confirm hardware readiness for early field deployment and ensure high quality product at customer sites.
- Led a hardware redesign program through structured root-cause analysis, design validation, and process improvement strategies improving system efficiency by **23%**, delivering **$140K+** annualized savings

Product Development Co-Op - Wabash National Corporation ***November 2023 - August 2024***

- Directed **3+** design-validation programs from concept → prototype → pre-production, managing cross-functional test timelines and release plans.
- Evaluated trade-offs for NPI hardware by quantifying complexity vs operational impact, presenting cost-of-design scenarios to stakeholders, and prioritizing deployment sequencing that avoided ~$90K in schedule and rollout risk.
- Collaborated with suppliers on design and material changes, reducing product cost by 18% while meeting system validation and manufacturability targets.

PROJECTS & PUBLICATIONS

Client Consultant Project (*Product Management*) — ***January 2025 - May 2025***

- Applied process-capability analysis (SPC, Cp/Cpk estimation), and performed hardware redesign reviews improving system stability and increasing simulated tool yield by 27% for pilot hardware builds.
- Delivered executive updates to the client and protected program deadlines, highlighting cost of delay vs benefit of deployment, growth metrics and improved deployment timing confidence for new hardware launch.

Product Design of Refrigerator Inventory (*Supply Chain Management*) — ***August 2023 - December 2023***

- Designed and developed an inventory management app, integrating user-centric product design and system optimization to improve efficiency and reduce waste.

Formula Student - Team Uttejit (*Project Management*) — ***December 2019 - October 2022***

- Led weekly design-change reviews in FSAE vehicle dynamics team, integrating simulation outputs with testing feedback to iteratively improve chassis and subsystem performance.
- Designed and analyzed steering components leading to a **30%** weight reduction of the steering system, optimized vehicle lap time simulations leading to **22%** turn-radius minimization and performed ergonomic analysis on CATIA.

SKILLS

- **Management:** Agile, Lean Six Sigma, project scheduling, cost & quality metrics, deployment ROI, AI-based planning.
- **Engineering:** CAD, GD&T, tolerance stack reasoning, DOE, DFMEA, Process engineering, CVD exposure, NPI.