



Siddharthan N

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Summary

Analytical professional with 4.5 years of experience leading cross-functional teams and managing global stakeholders. Skilled in problem-solving and process optimization, seeking to leverage analytical rigor and project leadership to solve complex business challenges and deliver high-impact client solutions.

Professional Experience

Design Engineer | Dealer Service Tools, Caterpillar Inc | Chennai

- Led cross-functional initiatives as **1 of 4 engineering leads**, developing robust hardware solutions to streamline field service operations for heavy equipment fleets.
- Spearheaded a 3-engineer team to design and **execute a data-driven stock clearance strategy**, conducting sales, margin, and competitor analyses to salvage **650+ hardware tools**, **preserving \$200K and boosting operating profit**.
- Sustained business continuity by **aligning offshore suppliers and key process partners** during a key leadership vacancy, directing 3D-to-2D CAD conversions, achieving **95% error-free deliverables** on schedule.
- Optimized **3 critical end-to-end hardware tool workflows** aligning offshore suppliers and cross-functional SMEs, **reducing flow time by 10%**.
- Led a 4-member team to ensure **uninterrupted supply of 150+ hardware tools** to Caterpillar Dealers, following supplier disruption, through reverse engineering, **preserving \$180K in annual revenue**.
- Drove cross-functional operations with key process partners to establish an executive **dashboard**, **monitoring 200+ concurrent projects** and delivering senior leadership critical **visibility into deadline compliance and iteration cycles**.

Associate Design Engineer | Dealer Service Tools, Caterpillar Inc | Chennai

- **Preserved \$40K in annual revenue** by evaluating technical specifications, vendor economics, and market availability to source off-the-shelf **replacements for 50+ discontinued hardware tools**.
- Diagnosed and **fixed 2,000+ component discrepancies** under a tight 7-day timeline, eliminating critical CAD modelling errors to ensure accurate calculations that **enabled a lifting tool deployment generating \$1.8M** in revenue.
- Drove a **projected 15% increase in sales** by analysing sales trends, usage, and catalog presence for **25+ hardware tools** to onboard them into the Dealer Service Tools Catalog while highlighting unique safety features.
- Streamlined the tool lifecycle stage and **reduced redundant inventory** across Caterpillar facilities by analysing sales history, dealer demand, and duplicate functionality to **eliminate approximately 100 low-demand hardware tools**.
- Resolved systemic equipment risks by **evaluating 800+ technical procedures** to identify **20 critical tool-use errors**, **driving long-term corrective actions** for engine service operations.
- Executed **root-cause audits** on excavator assembly lines to eliminate fluid leakage, **introducing a visual packaging strategy** to differentiate look-alike O-rings and **prevent human-error** installation defects.

Education

BE (Mechanical Engineering) – *PSG Institute of Technology and Applied Research, Coimbatore | India*

Accomplishments and Awards

- Promoted for Exemplary Performance – Promoted from Associate to Design Engineer in the first three years.
- Recognized with 8 quarterly awards for delivering high-impact engineering solutions across key Caterpillar projects.
- Earned Lead Engineer promotion in 3 years (vs. 5-year benchmark) to lead 3–4 engineers on projects.

License & Certifications

Lean Six Sigma Green Belt - KPMG

In-Plant Training – TVS Motor Company, Hosur, India

Analysis on Mechanical Behaviour of Materials, Indian Institute of Technology, Madras

Co/Extra-curricular

- Placement Coordinator for batch of Mechanical Engineering (2017-21) at PSG Institute of Technology and Applied Research.
- Represented the school football team at the state-level ASISC tournament, competing against top regional teams.
- Collaborated within a 50-member team to execute a dual-location sapling plantation drive, planting 5,000 trees in partnership with Grow Billion Trees and Caterpillar Inc.