

Chandra SK Nadendla

Email: chandrasknadendla@gmail.com **LinkedIn:** Chandra SK Nadendla **Mobile:** +917382959704

PROFILE

Innovative and results-driven Product Manager with a strong foundation in Mechanical Engineering, Robotics, and Product Design. Experienced in leading research and development (R&D), client engagement, and robotics design at Autonomous Robotic Centre (ARC), RRU. Proficient in CAD, 3D modelling, and advanced simulation tools (ANSYS, Abaqus) with a successful track record of developing cost-effective and manufacturable solutions. Additionally, skilled in Full Stack Development with expertise in Angular, React, AWS, and Azure, combining engineering and software development for interdisciplinary problem-solving.

EDUCATION

University of Glasgow, UK

MSc., Mechanical Engineering (2022 – 2023)

NMIMS, India

Diploma in General Business Management (2021 – 2022)

KL University, India

B.Tech., Mechanical Engineering (2016 – 2020)

WORK EXPERIENCE

Product Manager | Trinnovate | India (Feb 2025 – Present)

- **Leading R&D at Autonomous Robotic Centre (ARC), RRU**, driving innovative projects in robotics and automation.
- **Managing client engagement** by liaising with industry partners, understanding business requirements, and translating them into technical solutions.
- **Overseeing robotics design and development**, including hardware and software integration, sensor fusion, and AI-driven automation.
- Spearheading cross-functional collaboration between mechanical, electrical, and software teams to optimize robotic performance.

Business Development Executive | Geo Lands Doctor | Remote (Sep 2024 – Dec 2024)

- Conducted market research on 50+ companies to evaluate potential demand for Geo Lands Doctor's services in Canada.
- Identified 10+ high-potential clients, initiating conversations for strategic partnerships.
- Developed 3 strategic business models, focusing on market penetration, competitive differentiation, and service expansion.
- Assisted in refining the company's go-to-market strategy, leading to a 15% improvement in targeted client engagement.
- Created detailed competitor analysis reports, highlighting 5 key competitors and Geo Lands Doctor's unique advantages.

- Presented findings and recommendations to leadership, influencing the company's next-phase expansion strategy.

Freelance Product Designer | UK (Feb 2023 – May 2023)

- Researched and developed low-cost electricity generation solutions for underserved communities in Brazil.
- Engineered prototypes like **water pressure-based generators, auto-magnet turbines, and scalable solar panel systems.**

Front-End Engineer | Cognizant Technology Solutions | India (Dec 2019 – Dec 2021)

- Developed web applications for **customer service operators**, handling large datasets on stock and billing information.
- Created over **10 web pages** displaying thousands of stock items and customer transactions.
- Trained **five Cognizant employees in React JS.**

Project Engineer | Hybrid & Electric Vehicle Project – Ezenith | India (Jan 2018 – Feb 2018)

- Evaluated **motors, controllers, and battery packs** to optimize **range up to 200 km** for an electric bicycle.
- Awarded **Best Intern** for outstanding project execution.

PROJECTS

University of Glasgow (Jan 2022 – Aug 2022)

Project 1: Performance Evaluation of Additive Manufacturing Enabled Thin-Walled Spinodoid Structures

- Designed **Spinodoid structures** using **MATLAB.**
- Processed and refined **500+ data points for each of 35 tested samples**, interpolating missing values in **MATLAB and Python.**
- Developed a **mathematical model** to predict mechanical properties based on resistivity.
- **3D Printed prototypes** using **Apium P220, Ultimaker, and other industrial 3D printers.**

Project 2: Obstacle Avoidance Robot Using Fuzzy Controller

- Designed a **Fuzzy logic controller** to regulate robotic movement based on obstacle detection.
- Integrated **neural network algorithms** to optimize robot path planning in MATLAB simulations.

LEADERSHIP & MENTORING

Mentor | Horse's Mouth | Remote (Apr 2024 – Present)

- Providing **guidance to international students**, helping them navigate academic challenges and cultural adjustments.

Supervisor | Morrisons Daily | UK (Jan 2024 – Jan 2025)

- Oversee store operations by managing daily tasks such as opening/closing procedures, conducting newspaper bookings, and maintaining accurate records of sales, stock levels, and safe balances, ensuring seamless store performance and financial accuracy

- Execute inventory management duties by checking refrigerator temperatures, monitoring stock gaps, and organizing stock replenishment, which reduces shortages and enhances overall customer satisfaction by ensuring product availability
- Lead team coordination by assigning tasks, organizing staff schedules, and providing training to team members, fostering a well-organized and productive work environment that contributes to improved employee performance and customer service quality

Design Engineer & Logistics Manager | Sangfroid V4.0 (Go-Kart Team) | India (Jan 2018 – Mar 2019)

- Designed a **Go-Kart chassis in SolidWorks and Fusion 360**, performing **Failure Model Analysis (FMA) and Finite Element Analysis (FEA)**.
- Led manufacturing optimization by implementing **DFM principles**, reducing costs while ensuring durability.
- Managed logistics and supply chain for a 20-member team, successfully presenting at **Imperial Society for Innovative Engineers** competitions.

PUBLICATIONS

Performance Analysis of Gasohol Fuelled SI Engine

International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Vol. 10, Issue 3, June 2020

Authors: Dollu Bhaskar, V. Nitish Kumar, **N.C. Kamal**, Karri Satyanarayana Reddy, Kamarouthu Naga Upendra

TECHNICAL SKILLS

Mechanical Engineering: CAD, FEA (ANSYS, Abaqus), Additive Manufacturing, Product Design, Simulation

Software Development: Angular, React, Python, MATLAB, AWS, Azure

Robotics: Robot Design, Sensor Integration, AI for Automation

Business & Market Research: Client Engagement, Product Analysis, Market Expansion