

Dominic Kevin Costner

Manufacturing | Process | Production Engineer

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Summary

Results-driven Manufacturing Engineer with a Master's in Advanced Manufacturing (UK) and hands-on experience in lean process optimization, industrial safety, and new product development. Six Sigma certified, experienced in leading cross-functional teams and implementing cost-effective improvements.

Technical Skills

Engineering Tools: Catia, Creo, Nastran, Ansys, SolidWorks, Robot Studio, HyperMesh

Core Skills: Lean Manufacturing, Good Manufacturing Practices, 5S, Fused Deposition Modelling, Root Cause Analysis, Failure Mode Effect Analysis, Kanban, Kaizen, Additive Manufacturing, Reverse Engineering, New Product Development, Industrial Safety

Certificates: Industrial Safety Certificate, Lean Six Sigma Green Belt, Lean Leadership Skills, Hybrid Vehicle Design and Development, SAP ERP essentials, 3D Printing, Minitab Essentials, SAP Production Planning, Reverse Engineering for Product Design, Managing Team Conflicts, Strategic Thinking.

Education

- **Master of Science (Distinction)**, Advanced Manufacturing Systems and Technology
University of Liverpool - Liverpool, UK Jan 2022 – July 2023
- **Bachelor of Technology (First Class)**, Mechanical Engineering
Reva University – Bangalore, India Aug 2017 – May 2020
- **Diploma (First Class)**, Automobile Engineering
Acharya Polytechnic – Bangalore, India Aug 2013 – Oct 2017

Relevant Experience

Manufacturing Engineer *Techno Fibres - Bengaluru, India* Mar 2021 – Nov 2021

- Led new product development from design to manufacturing and scaling, using Design for Manufacturing and pilot production techniques to identify bottlenecks.
- Implemented Lean Manufacturing principles on the shop floor, achieving a 25% increase in production output and reducing root-cause problems.
- Organized a preventive maintenance program, improving Overall Equipment Effectiveness, and conducted in-house Industrial Safety Training sessions for workers.
- Collaborated with suppliers to ensure consistent quality of raw materials and components through regular communication, negotiation, and quality audits.

Warehouse Team Member *Co-op foods - St Helens, UK* Mar 2024 – Sep 2024

- Transferred materials weighing up to 10kg above head using safe manual lifting techniques.
- Carried out day-to-day warehouse duties with care and attention, maintaining compliance with safety standards.
- Regularly exceeded performance and productivity targets through accurate, efficient picking and packing.
- Provided continuous improvement ideas to warehouse managers to reduce waste and increase efficiency.

Manufacturing Intern *Indian Railways - Bengaluru, India*

Jun 2018 – Jul 2018

- Executed large component precision manufacturing operations using CNC machines for rail wheel and axle production.
- Identified safety concerns and communicated them to relevant departments, while also preparing engineering reports for internal communication.
- Conducted magnetic particle testing for surface flaws and ultrasonically tested for internal flaws to ensure maximum reliability.

Other Experience

Fraud Prevention Specialist *Barclays - Liverpool, UK*

Sep 2024 – Apr 2025

- Investigated complex fraud cases, making swift, accurate decisions while adhering to regulatory standards and company policies.
- Championed continuous improvement by identifying recurring issues and implementing process enhancements, reducing resolution time by 15%.
- Collaborated with internal teams and third parties to streamline workflows, enhancing efficiency and service quality.
- Proposed and implemented improvements in fraud detection processes, increasing accuracy and preventing repeat incidents.

Projects

Laser Optical Trapping (MSc Project) – Jun 2022 – Sep 2022

- Developed and implemented a laser optical trapping system using advanced optical components and techniques to manipulate micro-scale particles or biological samples.

Airbus A310 Fuselage Reverse Engineering – Feb 2022 – May 2022

- Reverse-engineered a fuselage fragment of an Airbus A310 using EDXS data and Granta EduPack software to analyze material composition, enabling precise understanding of structural integrity and informing future design enhancements.

Flood Relief Hexacopter (BTech Project) – Apr 2019 – Apr 2020

- Led a three-person team in developing a specialized hexacopter for flood relief operations. Designed to carry 3-4 kg payloads, achieving a 15-minute flight time at an altitude of 40 feet, facilitating efficient delivery of essential supplies to flood-affected areas.

Additional Information

- Willing to relocate anywhere within the UAE
- Holds a clean British driving license eligible for direct exchange to UAE license