

# SACHIN VIJAY

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## PROFESSIONAL PROFILE

Detail-oriented and proactive Project and Engineer with 4+ years of experience in managing capital-intensive projects, risk profiling, and delivering high-stakes engineering solutions, adept at aligning engineering solutions with sustainability goals, risk management, practical problem solving, quality assurance, and cross-functional team coordination. Expertise in developing risk strategies, conducting risk workshops, and ensuring compliance with governance frameworks for high-hazard environments. Adept at applying HSE standards, conducting RAMS reviews, and delivering projects on time and within budget. Highly skilled in project lifecycle management, cost analysis, and stakeholder communication. Actively pursuing Chartered Engineer (CEng) accreditation to further advance a career in risk and project engineering.

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## WORK EXPERIENCE

### Project Engineer [End-End PM] (04/23 to Present)

Greencore (Northern sites-Leeds, Selby, Consett)

- Successfully managed detailed planning and delivery of multiple projects (£100K-£2M), achieving an average 20% cost savings through effective resource allocation and supplier negotiation.
- Implemented Prince2® and Lean methodologies ensuring continuous improvement, improving production efficiency by 10% and reducing material wastage by 25% saving £155,000 annually.
- Monitored KPIs, adapting sustainable solutions that reduced material costs by 15% and environmental impact by 20%, aligning with company sustainability goals.
- Developed detailed project risk profiles and tracked KRIs to mitigate technical, cost, and scheduling risks, achieving a 10% reduction in financial exposure.
- Applied risk methodologies such as HAZID, HAZOP, and LOPA to identify and mitigate safety and operational risks during project execution.
- Prepared weekly reports on project progress, compliance, and technical issues to stakeholders.
- Managed end-to-end equipment placement and route integration using AutoCAD LT 2024 software, improving project efficiency by 15%.
- Led cross-functional risk assessment workshops, promoting collaborative risk ownership across project teams and stakeholders leading to a 15% reduction in downtime for fault findings.
- Assisted commissioning teams to validate project readiness, supporting successful delivery of operational systems.
- Proficient in change management, track on Non-Conformance Reports (NCR) / Field Change Request (FCR)
- Managed contractors to ensure HSE compliance on-site by leading regular safety meetings, site audits, and implementing robust safety protocols achieving a zero-incident record during tenure.
- Streamlined project planning using Primavera P6, SCADA, and MS products for precise project documentation and coordinated technical risk reviews to ensure adherence to governance frameworks.

### Senior Claims/Improvement Specialist (SME) (10/19 to 08/21)

Good Methods Global (Carestack)-Trivandrum, India

- Led cross-functional risk management sessions during product development, identifying potential failure modes and proactively addressing risks to maintain project integrity.
- Coordinated cross-functional teams and Agile sprints, ensuring clear communication of project updates, risks, and progress, significantly reducing project delays.
- Utilised Agile and Lean methodologies to mitigate project risks, ensuring that product development milestones were met without compromising on safety or quality.
- Delivered comprehensive product support and implementation to stakeholders, fostering enduring client relationships, and ensuring the successful integration of solutions across various contexts.
- Adopted digital project management tools like JIRA and Power BI facilitating better communication and project tracking, reduced project delays by 40% also enhancing team collaboration.

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## PROJECTS

Following is some of the projects I have managed in my current role under different streams

Mechanical	Electrical	Infrastructure/Civils	ESOS
Factory Ventilation system	Electrical Panel Upgrade	Ammonia Building Refurbishment	Energy Monitoring system
Boiler Optimisation	Component Obsolescence	Cross-line interconnection	Site Lagging upgrade
HVAC system upgrades	Transformer upgrade	Capacity enhancement Upgrade	Energy Efficient Motors
Machinery Overhaul	Safety and Reliability enhancement	Pipework for Production line	Auto-coding improvement

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## EDUCATION

**University of Leeds** – Leeds, UK.

09/2021 – 09/2022

Master of Science: **Automotive Engineering**

- Major Modules: Vehicle design and analysis, Computational fluid dynamics, Finite Element Analysis, Electric and hybrid drivetrain engineering, Engine Tribology etc.
- Developed expertise in DFMEA and technical risk management, applied in projects involving manufacturing techniques, product launch environments, and project governance to ensure precision.
- Conducted process mapping and root cause analysis as part of coursework, enhancing technical problem-solving skills relevant to manufacturing and logistics where 8D method was utilised.
- **Coursework:** Powertrain Design and Optimization, Aerodynamics and Vehicle Dynamics, Battery Systems Modeling, Structural Analysis and Lightweight Design, Thermal Management, Vehicle Control Systems, Noise, Vibration, and Harshness (NVH) Analysis, Charging Infrastructure Modeling (EV).
- **Projects:** Transmission gear design for formula E vehicle, Mechanical design for connected autonomous Pod.
- Professional Project: **High Speed Rail Track Structure Characterization (MATLAB)**

**University of Kerala** - Thiruvananthapuram, India.

06/2015 – 06/2019

Bachelor of Technology: **Mechanical Engineering**

- Major modules: Mechatronics, Engineering Mechanics, Thermodynamics, Manufacturing Technology, Computational Programming, Computer-Aided Design, Tribology, Nanotechnology.
- Gained hands-on experience with welding, Computer numerical control (CNC), Engineering lathes, conventional milling, shaping, grinding, tool grinding, smithy, carpentry etc.
- Knowledge in Shunt reactors, circuit breakers, transformers, single assets intervention etc. aided in electrical projects I have led.
- Knowledgeable in manufacturing techniques and latest material technologies for real-world applications.
- Professional Project: **Fabrication of Aluminium Metal Matrix Composites**

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## CERTIFICATIONS AND ACHIEVEMENTS

- High speed training-HSE (Working at heights, Hot works, Confined space).
- Valves and CIP systems.
- Actively pursuing CEng accreditation (IMechE)
- Drone Pilot (UK/EU Operator/Flyer Licence)

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## SKILLS

- Software: Primavera P6, SCADA, SolidWorks, ANSYS, AutoCAD, PowerBI, CATIA V5/V6
- Tools: JIRA, SAP, MS products (Office, Word, Excel, PP), Ansys Fluent, Mainsaver, Qperm
- Programming Language: MATLAB, C++, JAVA, Python
- Technical skills: NEC CM, DFMEA, Technical and Cost Data Analysis, PUWER, DSEAR, SAP ERP
- Methodologies: Prince2®, Lean, Agile, Six Sigma, Scrum, Adaptive planning
- Risk Management: RAMS, LOPA, Risk Profiling, HAZID, HAZOP, HAZCON