

TONY SOJAN

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EDUCATION

Northeastern University, Boston MA, USA

May 2026

Master of Science in Engineering Management. Vice President – Energy Systems Society

Relevant Coursework: Engineering Project Management, Product Development for Engineers, Operations Research

Auckland University of Technology (AUT), Auckland, New Zealand

Jun 2023

Bachelor of Engineering Technology in Mechanical Engineering

Relevant Coursework: Engineering Design Methodology, Product Design, Operations Management for Manufacturing

Waikato Institute of Technology (Wintec), Hamilton, New Zealand

Nov 2017

NZ Diploma in Mechanical Engineering (Associate Degree)

SKILLS

- Software proficiency: (CRM software – Salesforce); (Job costing - MYOB and iplaser); (Tools – Asana, Jira, confluence, Slack, Microsoft Project, Teams; (CAD – AutoCAD, Solidworks, Draftsight); (Design – Figma)
- Data & Analytics – Power BI, Minitab, Excel (Advanced), Google analytics, SQL, Python
- Technical & Hardware – Design for Manufacturing, CNC Machinery operation, Prototyping, quality assurance
- Project/Product Management – Agile & Scrum Methodologies, Product Roadmapping, User Story Creation, A/B Testing, Competitive Analysis, User Research, Prioritization Frameworks, Statistical Analysis, PMP Certification

PROFESSIONAL EXPERIENCE

Project Manager Intern

May 2025 – Aug 2025

Draeger, Andover, United States

- Identified design and process issues during patient monitoring device M540 production, driving manufacturing practices improvements with cross-functional teams that reduced Production Failure Rate from 15% to below 5.5% goal through daily PFR meetings and problem-solving workshops
- Developed an automation process using an AI assistant to parse technical initiation documents (PTIs) and generate project deliverables, aligning with long-term workflow strategies and reducing manual setup time by 35%.
- Identified, prioritized, and managed key technical risks across medical device projects, ensuring all technical risks were mitigated through cross-functional collaboration with engineering, regulatory, and manufacturing teams
- Supported the preparation and maintenance of project documentation, including project schedules, status reports, and meeting minutes and explained the team's analyses and recommendations to the senior executives

Product Manager

Jun 2023 – Nov 2023

SolarZero, Auckland, New Zealand

- Managed multiple large-scale energy system projects from start to finish, developing project schedules and coordinating with cross-functional teams to ensure successful commissioning and configuration of customer installations
- Worked with product design and engineering teams to define requirements and technical specifications for a new energy monitoring hardware device by collecting 600+ customer feedback, managing its development roadmap
- Identified process issues in fleet management and installation, driving design and process enhancements to streamline installation procedures and improved operational efficiency by 20%, by collaborating with engineering and service teams
- Leveraged large datasets from solar monitoring platforms of 10,000+ customers to conduct data analysis to identify underperforming systems, optimize system configurations to improve overall system efficiency

Project Engineer

Jul 2019 – Dec 2021

Cullen Engineering, Paeroa, New Zealand

- Managed full lifecycle of manufacturing projects from concept to deployment, ensuring designs met functional requirements while optimizing for production, managing cost estimation and resource allocation
- Managed a 10-person cross functional engineering team, overseeing daily operations and ensuring workflow efficiency
- Worked with clients and internal Product Design teams to develop manufacturing processes that met product design requirements, coordinating with cross-functional teams throughout all phases of development and product introduction
- Managed the mechanical/assembly side of projects from initial builds through ramp, serving as mechanical technical lead in resolving issues during bring-up and life of product, identified design and process issues in the development cycle
- Estimated project costs, planned and scheduled production runs, maintained detailed project documentation and oversaw prototype development and testing, utilized 3D CAD SolidWorks to design new products.

CNC Machinist

Dec 2017 – Jun 2019

Longveld, Hamilton, New Zealand

- Operated CNC machineries with precision, ensuring accurate cutting and adherence to production specifications, performed routine maintenance and troubleshooting on the machineries to maintain optimal functionality
- Collaborated with Product Design team and production engineers to translate 3D CAD drawings into manufacturable parts, providing technical feedback to develop manufacturing processes for early-stage hardware prototypes.

ACADEMIC PROJECTS

Design and build low-cost bicycle eco-helmet - Developed a composite cork material for helmet liners and discovered that agglomerated cork with polyurethane excels in energy absorption and dimensional recovery

Publication (April 2024) – MDPI - <https://www.mdpi.com/1996-1944/17/8/1925>

Predictive Maintenance Model for Industrial IoT Devices - Developed a Python machine learning model to predict equipment failure by analyzing time-series sensor data and designed a dashboard to visualize equipment health

NASA SUITS Challenge – Developed a haptic-feedback joystick using an ESP32 and 2-axis servo gimbal for controlling the rover