

# VARUN KAILASH NAYAGAM

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## Education

### *Master of Engineering in Engineering Management*

Sep 2022 – Dec 2023

University of Ottawa- Telfer School of Management, Ottawa, Canada

Courses: Project Management, Operational Excellence and Lean Six Sigma, Manufacturing Analysis

### *Bachelor of Engineering in Mechanical Engineering*

Aug 2017 - Apr 2021

Anna University- Department of Mechanical Engineering, Chennai, India

Courses: Materials Science, Process Planning, Manufacturing Technology, Principles of Management

## Professional Experience

### *Process Quality Control Engineer Co-op*

Jan 2023 - Aug 2023

Weyerhaeuser Canada, Edson, Alberta

- Administered six sigma methodologies to propose recommendations to the timberland and the log yard team aligned to regulations, reducing the production costs by \$650K CAD after reviews.
- Facilitated process optimization projects, resulting in a 4% increase in production efficiency and a 6% reduction in defects by troubleshooting in the stranding and milling machine.
- Conceptualized MS 365, Root cause analysis (RCA), Reliability centered maintenance (RCM), data analysis, acquisition and RADAR tool hazard assessment to ensure data-driven decision making and a safe work environment by risk and visual management.
- Streamlined communication channels and fostered cross-functional collaboration, ensuring alignment of project objectives; facilitated a 12% increase in team efficiency and delivered projects ahead of schedule, resulting in \$100k revenue growth and sales.

### *Junior Process Engineer*

Jul 2021 -Jul 2022

Hitek Machines, Chennai, India

- Innovated and crafted a cutting-edge Borewell child rescue device prototype, highlighting exceptional engineering acuity, process engineering; garnered substantial attention and positive feedback for sturdiness, effectiveness, and potential impact on enhancing safety measures.
- Optimized vendor and customer relationships, logistics and negotiated competitive pricing agreements, offering engineering support and closeouts by analyzing and reporting, resulting in an annual cost reduction of \$50,000 CAD for material procurement across projects.
- Developed and documented process improvements plan already executed by senior staff, resulting in a 10% reduction in errors.
- Spearheaded the technical onboarding program for new hires for entry level positions, delivering comprehensive training sessions on lean manufacturing best practices and safety regulations, resulting in a 15% reduction in downtime and an increase in strategic development and key performance indicators.

## Professional Achievements

- Restructured the process chart, and flow using lean techniques which eased out the flow in the timely delivery of projects by project reporting and assignments by 13%.
- Proposed techniques and standardized procedures to follow during the product changeovers reducing the unplanned downtime in the product line by 5%.

## Academic Projects

- **Advocated** for change by showcasing a research study on the negative effects of oversize wood logs, leading to the implementation of a strategic plan that reduced fines by 25% and improved overall production efficiency and product quality.
- **Implemented** an argon-assisted gas technique for laser cutting of low carbon thin steel sheets, enhancing production rate by 18%, achieving a superior chemical surface finish, and boosting overall performance.

## Skills

**Business:** Client Relations, Critical planning, Judicious approach, Strategic thinking, Solutionist.

**Technology:** Microsoft 365, SQL, Power BI (Rudiments), QMS, SPC, PPAP, APQP, QMS, PFMEA,MSA, Minitab, Auto CAD, LSSGB certified.