

KARTIKEYAN TANJAVUR SARAVANAN

MECHANICAL DESIGN ENGINEER - AutoCAD Designing, 3D Modeling & Process Control

✉ karthicksaravanan143@gmail.com ☎ (+1) 382-885-1062 📍 Ontario in [LinkedIn](#)

SKILLS

- **CAD & Design:** SolidWorks, AutoCAD, 3D modeling, GD&T, FEA analysis, technical drafting, CATIA.
- **Manufacturing Systems:** Jigs & fixtures, tool design, lean principles, assembly workflows, process control.
- **Engineering Software:** Syspro, SAP ERP, Jira basics, MATLAB, data visualization tools, Ansys simulation.
- **Project Applications:** Constant force spring tool, stamping dies, robotic assemblies, sheet metal systems.

WORK EXPERIENCE

Mechanical Assembler

ATS Automation

July 2025 – Present

Cambridge, ON

- Prepared and validated 50+ robotic assemblies monthly under GMP protocols, ensuring a 96% first pass yield and advancing cross-department manufacturing quality metrics through structured trials and feedback loops.
- Partnered with 5+ engineers to execute structured design tests, achieving 95% successful validation rates and reducing revision cycles by 18%, contributing to faster production timelines and long-term product reliability.
- Facilitated in SCRUM meetings across 3 departments, improving alignment, accelerating completion speed by 20%, and supporting improvement with measurable impact through collaborative idea-sharing and engagement.

Cashier (Part-Time)

FreshCo

May 2024 – Present

Cambridge, ON

- Processed \$4M+ in cash and card transactions with 100% accuracy, maintaining compliance with financial procedures and achieving zero discrepancies in daily balancing while ensuring customer trust for the organization.
- Collaborated with 3 cross-functional units to integrate new workflows, driving smoother program rollouts and increasing checkout efficiency scores by 12% across locations, while supporting seamless transitions in operations.
- Delivered frontline service to 250+ customers per shift, resolving complex inquiries and directly contributing to 97% store satisfaction ratings on customer surveys, reinforcing the store's trusted reputation for excellence.

Design Engineer

Lee Spring Company Pvt. Ltd.

March 2022 – May 2023

India

- Designed 30+ jigs and fixtures, improving coil machine efficiency by 25% using SolidWorks/AutoCAD, which reduced production delays and supported throughput metrics while streamlining technical setup requirements.
- Administered 100+ projects through SAP/Syspro, boosting planning accuracy by 30% and ensuring timely reporting to senior leadership through technical documentation while reducing administrative errors in production.
- Led end-to-end design for constant force spring variants, converting concepts into 3D prototypes, accelerating readiness and enabling smooth tool adoption while enhancing collaboration with engineers and manufacturers.

Production Engineer

Sun Large Industries

August 2021 – February 2022

India

- Directed daily production schedules and monitored material flow, sustaining workplace safety, meeting manufacturing expectations, and ensuring high shop floor efficiency while coordinating directly with supervisors.
- Designed and deployed new tools/dies in SolidWorks, cutting raw material costs by 12% annually and strengthening budget control through accurate project planning while reducing dependency on other external suppliers.
- Introduced a quality-check framework that cut defect rates from 8% to 3%, improving customer acceptance rates and reducing rework cycles across production runs while reinforcing inspection and process control standards.

Service Advisor

Maruti Suzuki: Suraksha Pvt. Ltd.

July 2020 – July 2021

India

- Delivered technical maintenance consultations to 40+ clients daily, achieving a 95% customer satisfaction rating and sustaining 99% organizational compliance with OEM specifications while driving loyalty and retention.
- Supervised operations across mechanics, sales, and wash teams, improving interdepartmental coordination and enhancing customer service experience metrics by 10% while ensuring seamless task allocation and accountability.
- Managed 40+ daily service appointments, implementing statistical methods to assess quality, which reduced complaint escalations by 18% and reinforced client trust while sustaining efficiency in sales service performance.

EDUCATION

Post Graduate Diploma: Minor in Automation

Conestoga College, Kitchener, ON

January 2024 - April 2025

Bachelor of Mechanical Engineering

PES College of Engineering, India

April 2015 - June 2019