

# RAMAKRISHNAN NATARAJAN

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## Summary

Motivated and detail-oriented Mechanical Engineer with over 5 years of experience in product development, advanced engineering analysis, and design optimization. Proficient in SolidWorks and advanced CAE tools. Proven ability to lead cross-functional teams, mentor junior designers, and deliver innovative design solutions from concept to lifecycle. Committed to driving excellence in product design, development and fostering continuous improvement.

## Technical Skills and Certifications

- Proficient in SolidWorks, AutoCAD, Hypermesh, Abaqus, and Nastran.
- Dassault Systèmes Certified SolidWorks Mechanical Design Associate
- Autodesk Inventor 2022 Essential Training - LinkedIn Learning
- Solid Professor Certification for Spatial Visualization
- ISO 9001: 2008 Qualified Internal Auditor

## Education

- Post-Graduate Diploma in Operations Management** Jan 2022 – Aug 2022  
Fanshawe College, London, Canada
- Overall GPA: 3.97 / 4.2
- Post-Graduate Diploma in Applied Mechanical Design** May 2021 – Dec 2021  
Fanshawe College, London, Canada
- Overall GPA: 3.87 / 4.2
  - Design Portfolio based on the course: <https://rnmech.github.io/CAD/>
  - Software Tools Used: Solid works and Siemens NX 11
- Bachelor of Mechanical Engineering** 2008 – 2012  
Anna University, Chennai, India
- Overall GPA: 8.7 / 10.0
  - Overall University Rank: 43 / 4088
  - Software Tools Used: AutoCAD and Catia

## Professional Experience

### Chandco Manufacturing Inc., London, Ontario

*Production Member / Lead Hand* September 2022 – October 2023

- Led daily operations of Cut and Form Sheet Metal Depot
- Read blueprints and performed quality control on final products
- Operated Laser, waterjet, shearing, rolling, press brake, hand and power tools
- Provided design modification inputs for manufacturability
- Planned and organized production on the floor and modify according to demand
- Tracked purchase order from floor to delivery
- Supported arrival and dispatch of inbound material and outbound goods
- Trained for nesting (NC Programming) of Laser and Waterjet

Machines Used: Ermark CNC Swing Beam Shear, Ermark CNC PressBrake, Water Jet, Mitsubishi CNC Laser, CNC Roller, and Deburring Tumbler and Sander  
Softwares Used: DwgEditor, AutoCAD, MieTrak ERP, FlowPATH, FlowCut and MetaCAM

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## **ACS India Pvt Ltd, Chennai, India**

*Senior Analyst*

*March, 2018 - December, 2020*

- Conducted Stress and thermal FEA analysis of exhaust system designs, behavioral analysis of airbags for passenger and commercial vehicles
- Utilized CAD and CAE tools to generate comprehensive simulation reports both at the component and system levels
- Provided value added design modification inputs based on analysis reports
- Trained new graduates on FEA meshing, analysis setup and report generation
- Collaborated with engineering managers to support new product development by optimizing resource allocation and ensuring timely project delivery
- Organized and generated project proposals, estimations for NA Safety systems
- Automated the VBA macro for project handling and attendance systems, reducing human effort by 4 hours per day on average

Softwares Used: Solidworks, Auto CAD, Hypermesh, Abaqus, Nastran, MS Excel and PowerPoint

## **ACS India Pvt Ltd, Chennai, India**

*Analyst*

*October 2013 – May 2017*

- Involved in product development of HVAC and luggage compartment designing by providing benchmarking support to Ford of Europe and Ford NA
- Administered, assigned, and developed a benchmarking team, ensuring efficiency and quality in automotive design benchmarking solutions
- Involved in developing technical report formats, delivery pipelines and feedback
- Trained newly recruited team members for benchmarking department
- Automated project timeline charts and milestones using Excel VBA, leading to a 2 headcount increase for consistent automation project

Softwares Used: A2Mac1, AutoCAD, Hypermesh, PamCrash, LSDyna, MS Excel and PowerPoint

## **Volkswagen India Pvt Ltd, Pune, India**

*Graduate Research Trainee (Contracted through Randstad)*

*July 2012 – October 2013*

- Involved in product development of VW Polo Hatchback and Notchback for Indian market by Conducting competitor benchmarking teardown analysis
- Created internal reports for departments in R&D technical office and sales
- Cataloged competitor cars in the VW database and new car launch overviews
- Supported and analyzed root causes for field failures of cars under testing
- Organized vehicles for field testing and R&D technical audits

Softwares Used: Volkswagen Global Database, MS Word, Excel and PowerPoint