Subramanian Ganeshan

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Delivery | Product | Project | People | P&L | CAE/FEA | Data-Sci

Professional Summary

Accomplished Engineering Leader with 2 decades of experience in the automotive industry, specializing in CAE/FEA, product development, and team leadership for commercial and passenger vehicles. Expertise in**, Durability, NVH, Safety and proven ML Enthusiast**. Proven track record in delivering innovative and cost-effective solutions, driving digital transformation, and fostering global collaborations. Strong background in managing multi-disciplinary teams, optimizing processes, and supporting strategic initiatives for sustainable vehicle development. Holds 2 patents and 3 tech publications. Experienced in developing future product roadmaps and leading product/system design for global clients.

Leadership & Team Development: Extensive experience managing and mentoring teams, with direct responsibility for many engineers across CAE, Data Science, and E-mobility domains.

Product Development & Optimization: Expertise in **CAE analysis** (Durability, NVH,), **Body Engineering**, and **Simulation-based Design** for **Truck CAB/Chassis** components.

Cross-Functional Collaboration: Leading collaborative efforts with global engineering teams (Germany/Sweden) and, suppliers to meet customer needs.

Digital Transformation & Innovation: Proven experience in driving the digital design, simulation methods, and continuous product and process improvements.

Project & P&L Management: Skilled in managing budgets, resources, and deliverables while driving engagement for **CAE** and **Advanced Engineering** projects.

Skills

CAE/FEA/ Method/ Process	Revenue | Account | Recruitment	Client Engagement	Innovation /Problem Solving
Product | Project | Risk	Data Science | ML/AI application	Leadership/Mentoring	Stakeholder | Strategy
Hyperworks, Ansa	***Abaqus, Nastran, OptiStruct***	***Durability/NVH***	Revenue | ISO quality

Achievements

- Best V & V engineer @Altair - 2012: For testing HW13.0 and finding bugs and suggesting enhancements
- Best employee Award @Altair - 2013: For on time and quality deliverables for GMTCI – NA and Korea projects
- Above and Beyond Call of Duty- 2016,2018,2021: Process development for optimization, mirror blurring and NVH HUB
- Speaker at International CAE conference, Italy – 2016
- Process Innovation Award – 2018 for developing a method and target for image blurring in outer rear-view mirror
- Star Award -2019
- **2 Patents -2023 | 3 Papers – 2014,2016 (including 1 in SAE)**

Certifications

- Certified Scrum Master | A2 in German | Alison certified Project Manager | ISO 9001: 2015 Lead Auditor participation

Education

- Strategy, IIM Kozhikode, 2020
- M. Tech – Manufacturing Engineering, PESIT, 2011 – Fatigue Life Estimation of Al based Composite using MSC- Fatigue
- B.E., Mechanical Engineering, MSRIT, 2005

Work Experience

Delivery Manager, ASM Technologies, Bangalore, Jan 2024 – Present

Management Responsibilities (Team Size - 30)

- Responsible for a large headcount for multiple accounts in CAE and DATA SCI
- Onboarded 2 high-value revenue stream accounts in a single quarter (Volvo Aftermarket and Data Analytics for Cabin Engineering)
- Vendor, Supplier, Software License and RFQ Management,

Technical Responsibilities

- Identified and solved problems during Swappable Battery Station product development along with providing weight reduction measures
- Envisioned and spearheaded the creation of
  - An innovative, user-friendly ML app that delivers quick, reliable, and straightforward predictions across a variety of challenges.
  - A script for aftermarket which goes through many pages and indicates the location and type of missing data (service procedures)
  - E-Mobility range predictor and charging station locator based on dynamic factors such as traffic, passenger capex and vehicle loads

Project Manager, Tata Technologies, Pune, Aug 2023 – Jan 2024

Management Responsibilities (Team size – 5)

- Ensure effective manpower utilization through proper SOWs for NPD and VAVE projects and goal setting
- Started engagement with pedals team

Technical Responsibilities

- Leading Chassis CAE team to deliver cost effective, light weight components in pre-development stage
- Confirm all PAT relevant to Chassis CAE are met in pre-development & to minimize cost by replacing physical tests with digital means

Senior Technical Lead, Mercedes Benz R&D India, Bangalore, May 2014 – Aug 2023

Management Responsibilities (Team size- 10)

- Established 4 collaborations (~10FTE) through execution of pilots and pitching cases to internal customers
- Collaborating with more than **40**+ stakeholders across different cross-functional groups across the globe to facilitate product integrity

Technical Responsibilities

- Pioneered a groundbreaking methodology for optimizing automotive trims, resulting in a 25% reduction in weight *(OptiStruct)*
- Established a novel method -*FRF (SOL111 & 103)* to predict & counter image-blurring & prevent snap break for mirror systems *(Abaqus)*
- Functions optimization to meet full vehicle (BiW) NVH targets, trims and castings weight reduction *(Nastran and OptiStruct)*
- Reduced hardware testing by 100% for certain homologation/regulation requirement(s) & automation to minimize repeated tasks
- Problem solving issues in a collaborative way at Design (DVP) gate reviews

Team Leader, Altair Engineering, Bangalore, May 2012 – May 2014

Management Responsibilities (Team size - 11)

- Developed and led a team of 10+ analysts for static/modal/stiffness analyses of GMTCI projects on PT mounts, brake and fuel systems
- Work estimation, resource utilization, efficiency, competence, customer engagement, delivery, RCA
- Quality Assurance and Manual Testing of Hyperworks 13.0 suite

Senior Analyst, Chivaro | Piaggio | Voith Engineering, Bangalore, Sept 2010 – May 2012

Management Responsibilities

- Grew the Voith (startup India operations) -Airbus account by **4** times (together with the CTO) in a single quarter when posted as SPOC
- Led a team of **5** people for model build (meshing and integration using ***Hypermesh***) for A320 wing at Airbus
- Report project outcomes/potential risks to appropriate channels, escalating issues and resolution, Lead training plans.

Analyst, Volvo (deputed through Cades), Bangalore, Aug 2007 – Sept 2010

Technical Responsibilities

- Successful pilots on *static & modal analyses* of truck chassis equipment & secured projects from Lyon site (Renault) *[Ansa & Nastran]*
- Recommended design changes (CRIDS) on trailer connection bracket, which resulted in cost savings

GET/Project Engineer, Wipro Quantech, Bangalore, Jul 2005 – Aug 2007

- Trained and mentored a group of **12** people in *Hypermesh*