

Chithambaram Bhuthalingam

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Experienced Automotive CAE engineer with over 13 years of experience in crash analysis and structural development. Proven track record in leading cross-functional teams, managing complex projects, and ensuring compliance with safety regulations. Skilled in utilizing various CAE software tools to optimize vehicle safety and performance. Currently pursuing an MSC in project management, seeking to leverage technical expertise and leadership skills in automotive project management roles.

EDUCATION:

MSc Project Management. The university of law, UK – Dec 2023-present (completing by Feb2025)

MSc Automotive product Design MS Ramaiah school of advanced studies, India (Affiliated by Coventry University -UK). 2009-2011

Diploma in Tool & Die Mechanical Engineering Govt institute of tool engineering. 2003 -2006

TECHNICAL SKILLS:

Core manufacturing	CAE Crash & Safety	Simulation & modelling	Team Management
Product development	Test result & co-relation	Automotive safety regulations	Project & program Management
Automotive Engineering	EV safety development	Cross-functional team leadership	Risk assessment & mitigation

LANGUAGES: Tamil (Native), English (Full professional proficiency), Kannada & Telugu (Speak only)

EXPERIENCE:

Tata Consultancy services, India

June 2020-November 2023

Position: Associate consultant(C3A)

- Led PSA-EV vehicle frontal impact analysis projects.
- Conducted structural development for US-NCAP load cases and FMVSS standards.
- Developed enablers to achieve target ratings in crash safety tests using ANSA,PRIMER & Radioss
- Managed cross-functional teams to deliver timely results to clients

Stellantis, India

September 2012-May 2020

Position: CAE Safety Engineer (Agency) deputed through Fugenic Engineering services

- Performed comprehensive frontal, ODB, Rear Impact, Roof crash analysis for various vehicle models to improve structure integrity.
- Handling multiple iterations to understand the structure behavior and optimize the safety requirements.
- Optimized front-End design of Alfa Romeo Vehicle context of Pedestrian safety leg injury level. Comparison of aPLI and FlexPLI
- Developed and optimized structures to meet specific safety targets.
- Conducted test-to-CAE correlations and implemented structural improvements.
- Collaborated with design teams to enhance vehicle safety features.

- Assembly and Connections between BIW assemblies and closures. FE modelling of full vehicle and deck preparation for safety analysis. Using ANSA & LS-DYna

Mastercraft Engineers Pvt Ltd, Bangalore India

June 2006- August 2009

Position: Tool Engineer

- Concept design validation with designer, process planning for manufacturing, manufacturing follow up for assembly requirement.
- Injection mould assembly and try out, Correction of tool to meet dimensional quality criteria.
- Designed and developed injection moulds for automotive components
- Managed projects from design to final try-out, ensuring quality and timely delivery.
- Communicate with cross functional teams, Client handling to understand their requirements.
- Liaising with various vehicle module engineering teams and suppliers.

KPIT technologies

October 2010 - March 2011

Position: Graduate Engineering Intern

- Developed retrofit design for interchangeable instrument panels according to the usage.
- Conducted meshing and analysis on clamping systems of panels for durability.

Govt institute of Tool Engineering

May 2005-April 2006

Position: Final Year Project Candidate (Diploma Project: Design and development of Fuel Regulator knob for two-wheeler)

- Handling team of 4 members, Process planning, project scheduling and follow-up
- Responsible for assembly of injection mould and try out.

OTHER PROJECTS:

- Working on Cybersecurity Risk management and mitigation in context of autonomous vehicle development
- Development of auto gear mechanism- group project in masters converting manual transmission to push button gear shifting mechanism.
- Self-work on Airbag development for autonomous vehicle -technical paperwork for PHD application in Loughborough University – Passive safety development for autonomous vehicle (Airbag deployment from seat) missed due to COVID 2019

MEMBERSHIPS:

- Associate Project Member, APM UK (membership ID-P0588083)
- UK Full driving license holder

OTHER ACHIEVEMENTS:

- Interstate Hockey player
- Martial Arts (Black belt in Taekwondo-WTF- Dan1 certificate-50018229)
- Racing enthusiast

WEBSITE LINKS:

LinkedIn Profile: <https://www.linkedin.com/in/chithambaram-b-776a231a2/>