Shubham Dhurjad

OVERVIEW

CAE Engineer with 3.5+ years of experience in Analysis of Full Vehicle Low Speed as well as High Speed Crash. Knowledge about Automotive products lines and their archi tecture in Crash Domain. Good background in R&D for new product development and implementation of CAD, CAE skills.

TECHNICAL EXPERIENCE

- Domain knowledge and understanding of products and vehicle systems, sub-systems, and components for Full Vehicle Crash
- Worked on Euro-NCAP Full Frontal, ODB, MPDB and Side Pole load cases for High-Speed Crash
- Worked on RCAR, ECER42 regulations for Low-Speed Crash of Battery Electric Vehicle.
- Worked on Roll Over Protective Structure (ROPS) for Off-road utility vehicle.
- Worked on Pedestrian Protection as per Euro NCAP 2026
- Good understanding of engineering fundamentals of Strength of Materials and Crash Physics, and their application in Mechanical design
- Meshing, Model building, Analysis, Simulation, Postprocessing and Countermeasures activities using Preprocessor ANSA, Postprocessor Meta Post and Solver PAMCRASH, LSDYNA.

SOFTWARE SKILLS

- Pre/Post processors: - ANSA/ META Post, LS Pre-Post, HyperMesh
- Solvers : - PAMCRASH, LSDYNA
- OS/Scripting : - MS Office (Word, Excel, and Power point), Python

PROFESSIONAL EXPERIENCE

(A) Company Name: IDIADA Automotive Technology India Private Limited, Pune

Position: Project Engineer [March 2022 to till date]

- Experience in Full vehicle Slow Speed Crash for RCAR and ECE-R42 Regulations for front and rear impact using PAMCRASH Solver.
- Experience in Full vehicle High Speed Crash for Full Frontal ODB, MPDB, Side Pole and Rear Impact using LSDYNA Solver.
- Experience in Pedestrian protection as per Euro NCAP using PAMCRASH.
- Working on ROPS development for Off-road utility vehicle using LSDYNA Solver.
- Performed Physical Test vs CAE correlation studies for RCAR Front and Rear Crash.
- Provided design concepts for improvement in crash performance of the components/Sub-structures using expert level of understanding.
- Scripting and Automation for postprocessing results and efficient reporting.

(B) Company Name: Tata Institute of Fundamental Research, Mumbai

Position: Project Intern [Aug 2021 to March 2022]

- Structural Design of Cryogenic storage vessel (Dewar) as per ASME Codes & numerical modelling and optimization of suitable insulation technique

EDUCATIONAL BACKGROUND

PUBLICATIONS

- Design and Development of Liquid Helium Storage Dewar. FLAME 2022. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-99-2382-3_19
- Generative design for additive manufacturing (G-DFAM): An explorative study of aerospace brackets. AIP Conference proceedings [Scopus Indexed]. https://doi.org/10.1063/5.0113328

SOFT SKILLS

- A person with good fundamental Mechanical engineering knowledge.
- Understanding requirements, planning, scheduling & effort estimation for the projects.
- Excellent English communication (oral and written) and presentation skills
- Team player with highly effective interpersonal and collaboration skills
- Good learning agility with energy and zeal to deliver beyond expected results

MOST PROUD OF

- Formula Bharat 2020 & 2021, FSEV concept challenge 2020 & 2021.
- President of Mechanical Engineer Student Association, KKWP, Nashik. 2018-19
- Best Trainee Award at Inplant training at Strama Summit, Nashik. 2018

LANGAUGES

- Fluent : - ENGLISH, HINDI, MARATHI

PERSONAL DETAIL

- Date of Birth : - 29th June 2000
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