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|  |  | **BARATH SWAMYNATHAN - Senior Engineer**  **Mob :** +91 9611903003  **Email : barath.swaminathan@gmail.com** |
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| **Software/solvers**   * **Hyper mesh** * **LS DYNA,** * **Abaqus,** * **LS-opt** * **CATIA** * **APQP**   **Languages**   * **English** * **Tamil** * **Kannada** * **Hindi** |  | **Professional Summary**   * “Driven to Excellence” with 5 years of experience as CAE / Project engineer / Project Management * Good Problem Solving, Critical thinking, interpersonal skills and strong believer that success can be achieved only as a team   **Key Accomplishments**    **Autoliv India Private Ltd (October 2016 – Till date)**   * The structural behavior study was performed on the Steering Wheel for OEM’s like (AUDI, FORD, PSA, SUZUKI, Hyundai) to meet the automotive standards. * Design suggestion was given to achieve the Moment OF Inertia and stiffness requirement for smaller Steering Wheel of Ford. * Worked on the mechanism for folding concept Steering Wheel along with the research team to meet all the requirement as per the global standards * Design optimization to reduce the mass of the Steering Wheel by 5% and also improve the performance. * Material correlation of the Steering Wheel to meet the behavior of physical component, such that gap between the CAE and physical model is reduced. * Structural behavior of Steering Wheel was studies during Airbag deployment using LS-Dyna and correlated the behavior of the component which meets that of the physical component. * Performed the Airbag Deployment using Abaqus solver and compared the performance of the airbag with different solver to check the difference of the solvers. * Resolved the vibration Motor positioning, such that the maximum Haptic feedback is received to the entire Steering Wheel. * Alternative material like plastics, was used to study the structural performance of Armature.   **Lakshmi Designers (August 2015-16**)   * Project management of Injection moulds and Molded parts for medical and automotive components. * Advanced Product Quality Planning (APQP) tool used for projects   **Education**   * **Master of Science Automotive Engineering (2013-2015)**   M S Ramaiah University of Applied sciences- Bengaluru, KA   * **Bachelor of Engineering Mechanical Engineering (2009-2013)**   New Horizon College Road - Bengaluru, KA  **Accomplishments**   * Awarded 2nd prize for vibration motor position and motor rpm study for Hyundai. * Best project of the year from Ford. * Employee of the year/ Employee of the quarter. * Extra Miler Award – Highest quality and compliance to AUDI. * Kaizen were provided to cut the repeatability and time taken to perform the activity |
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