

FRAMROZ M. BHARUCHA

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Dedicated and focused Mechanical Engineering candidate. Proficient in 3D CAD modeling of components, assemblies and digital mockup (DMU kinematics) using CATIA V5. Experienced in the application of computer-aided engineering tools in component development (automotive, industrial) and analysis (FEA). Sound understanding of heat transfer and structural design. Strong work ethic and leadership skills that value and respect opinions of every member of the team to achieve the best possible result.

EDUCATION

MASTER OF SCIENCE, MECHANICAL ENGINEERING – UNIVERSITY OF TEXAS, ARLINGTON, TEXAS (SPRING 2014-2016)
BACHELOR OF ENGINEERING (FIRST CLASS), MECHANICAL ENGINEERING – UNIVERSITY OF PUNE – MAHARASHTRA, INDIA (FALL 2008-2012)

APPLICABLE COMPUTER SKILLS

CATIA V5 – ANSYS Mechanical – AutoCAD – MasterCAM – MATLAB – C++ – Solid Works – Icepak

ENGINEERING PROJECTS

COMPUTATIONAL ANALYSIS OF IT EQUIPMENT UNDER VIBRATION LOAD NOV 2014 TO PRESENT
RESEARCH ASSISTANT

Graduate thesis project sponsored by Commscope Inc

- Reconstructed already existing equipment in CATIA V5 from blueprint
- Used techniques like FEA, non-conformal meshing and half modal assembly along with parametric study to better utilize resources at hand
- Working on Ansys Mechanical to analyze stresses developed in the body due to various vibrational loads

SEMINAR ON APPLICATIONS OF MAGNETIC LEVITATION AUG TO DEC 2012
PRESENTER

- Presented a review of magnetic levitation and its potential applications with challenges to a review board of professors as part of undergraduate research projects
- Researched on applications like wind turbines, suspension system, and the rail gun

BAJA SAE INDIA SEP 2011 TO MAR 2012
VICE CAPTAIN, SIMULATION LEAD

Student engineering competition sponsored by SAE India/SAE International, team of 25 members

- Designed and analyzed chassis, suspension system and knuckle for manufacturing using CAD and FEA tools
- Assisted in leading the team and making sponsorship and budget decisions
- Assisted in recruitment of team members and allocating responsibilities to members

PROFESSIONAL EXPERIENCE

COLLEGE PARK CENTER, UNIV. OF TEXAS AT ARLINGTON AUG 2014 TO PRESENT
OPERATIONS CREW

- Set up, organize and manage arena for events held at College Park Center (CPC) of the UTA campus

DESIGN AND ANALYSIS OF HEAT RESISTANT CASTING (HRC) TRAY AUG 2012 TO MAR 2013
UNDERGRADUATE PROJECT INTERN AT BHARAT FORGE INDIA LTD

- Performed a 3D simulation and analyzed for determining thermo-mechanical loads on the components
- Optimized the existing design with multiple iterations in FEA
- Investigated the thermo-mechanical fatigue properties of steel
- Reduced total deformation being generated in the HRC tray by 15.16%
- Reduced equivalent stresses being generated in the HRC tray by 72.13%

EXTRA AND CO- CURRICULAR ACTIVITIES

PARTICIPATED IN RC COMPETITION: A STUDENT BODY IN UOP INVOLVED IN RADIO-CONTROLLED CARS
PARTICIPATED IN VARIOUS CATIA V5 COMPETITIONS
REPRESENTED SCHOOL, COLLEGE AND CITY IN BASKETBALL, HANDBALL AND FOOTBALL COMPETITIONS
HANDS ON EXPERIENCE WITH SMALL REPAIRS ON PERSONAL CAR, HOUSEHOLD WIRING, OPERATIONS ON LATHE