

Amin Tabaei

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EDUCATION

- 2015-Present M.Sc. Automotive engineering, Iran University of Science and Technology
Thesis: Numerical investigation of magnetic field effect on dissipative energy for magnetorheological elastomer-based bush by using the RVE (in progress)
Adviser: Dr. MH Shojaeefard and Dr. H Saeidi Gooarchin
GPA: 3.9/4 in WES format (18.25/20)
- 2010-2014 B.Sc. Mechanical engineering, Hormozgan University (5th, 6th, 7th semester were taken in Shiraz University)
2014-2015 Final project (of B.Sc.): Numerical modeling of the flow field around the vehicle (BMW i8)
Advisor: Dr. S Niazi
GPA: 3.2/4 in WES format (15.62/20)
- 2006-2010 Diploma in Mathematic and Physics
Overall GPA: 19.08/20

Research Interests

- Magnetorheological Elastomer
- Composite
- FEM

- Automotive
- Applied mechanics

HONORS and ACHIEVMENT

- 2016 awarded for ranked 2 in GPA M.Sc. students of automotive engineering, Iran University of Science and Technology
- 2015 Got Accepted at Iran University of Science and Technology, Tehran, Iran. (Exempted for tuition)
- 2010 Got Accepted at Hormozgan University, Iran. (Exempted for tuition)
- 2010 Got Accepted in Azad University Shiraz in Mechanical Engineering, Shiraz, Iran.

Experiences

- 2015-present Research assistant at automotive fluids and structures analysis
- 2017 Teaching Assistant in “continuum and Elasticity of solid mechanics”
- 2014-2015 Teaching fundamental of robotic for elementary students as member of ARAD robotic (company)

Publications

- “Introduction of Magnetorheological Elastomer using for vehicles “ accepted in journal of promotion science of Iran Society of Mechanical Engineering(2017)
- “Investigation of models for magnetorheological elastomer responses in variable damping of vehicles” accepted in 2017 Iran Congress in industrial Applications of Advanced Materials and Manufacturing (IAAMM)
- “Cohesive joints new choice for clean and safe vehicle” accepted in 2017 Iran Congress in industrial Applications of Advanced Materials and Manufacturing (IAAMM)

Research and Course Projects

- Modeling and numerical investigation of vehicles energy absorption with **ABAQUS**
- Parametric coding a house solar water heater by EES
- 4-arm linkage kinematic and dynamic modeling as simple hard sun-roof of vehicles with ANSYS(work bench)

- Heat transfer coding with MATLAB for special plate shape
- 3D truss Analyses with ANSYS(APDL)

Computer skills

- Mechanical ENG. Software:
COMSOL, ANSYS (APDL & workbench), **ABAQUS**, CATIA, GAMBIT & FLUENT, AutoCAD, Plot Digitizer, EES
- Programming:
MATLAB, FORTRAN,
- Presentation
Microsoft Office

Languages

- English (TOEFL exam at 14 October)
- Persian native
- Arabic familiar
- Deutsch little

Extracurricular Activities

- Sport
 - Bodybuilding Physique
 - Volleyball (ranked 2 in dormitory competition 2011)
 - Basketball (high school team member 2007-2009)
 - Football player (elementary school team member)
 - Swimming
 - Pin-pong (ranked 2 in competition between 2 clubs & guidance school team member)
 - Racing
- Reading psychological book & Iranian traditional poem
- Music