

CV

Seyed Ahmad Elahi

E-mail: seyedahmadelahi@gmail.com

Date of Birth: 4th August 1991

Education Profile:

2010-2013

- **Bachelor of Mechanical Engineering in Heat and Fluids** since **February 2010 until now**, **Yasouj University, Iran**. Courses Degree Percentage Until Now = **75.45% (15.09/20)**, BEng dissertation: **Theoretical and experimental investigation of flattening process on the empty and filled rectangular metal columns with different cross-sections**.

Academic Papers:

Academic Journals:

- **Abbas Niknejad, Seyed Mohammad Elahi, Seyed Ahmad Elahi and Seyed Ali Elahi**, "Theoretical and experimental study on the flattening deformation of the rectangular brazen and aluminum columns", **Archives of Civil and Mechanical Engineering**, Volume 13, Issue 4, December 2013, Pages 449-464. (Status: Published)

Conference Presentations:

- **Abbas Niknejad, Seyed Mohammad Elahi, Seyed Ahmad Elahi and Seyed Ali Elahi**, "Experimental investigation of foam and tube fracture in empty and foam-filled circular tubes", 11th International Conference of Iranian Aerospace Society, Iran. (Status: Presented)
- **Abbas Niknejad, Seyed Ali Elahi, Seyed Ahmad Elahi and Seyed Mohammad Elahi**, "Review of previous theoretical studies and introduction of a new relation for flattening of tubes", 12th International Conference of Iranian Aerospace Society, Iran. (Status: Presented)
- **Abbas Niknejad, Seyed Ahmad Elahi, Seyed Mohammad Elahi, Seyed Ali Elahi and Mohammad Mahdi Abedi**, "Axial and Lateral compression tests on empty and foam-filled tubes with circular and rectangular cross-sections", 12th International Conference of Iranian Aerospace Society, Iran. (Status: Presented)

Current projects:

- Submitting an experimental and theoretical paper to ISI journals on flattening of polyurethane foam-filled metal columns with rectangular cross-sections.
- Submitting a paper on introducing a new model of state of stress and defining a failure criterion for isotropic materials to ISI journals.

Professional Experience:

2010-Present

- **Part-time Teacher, Novin Robotic Society of Shiraz, teaching** Robotic, summer of 2010.
- **Part-time Research Assistant, The State University of Yasouj**, Theoretical and Experimental Investigations on empty and filled metal columns as energy absorbers, From June 2011 until now.
- **180 hours working in Iranian Offshore Oil Company at Lavan Island**, summer of 2012.
- **Participating in "Green Energies" workshop, The State University of Yasouj**, January 2013.
- **Participating in "Nano" workshop, The State University of Yasouj**, February 2013.

Technical Skills:

- **Programming Languages: Matlab and Pascal**
Matlab has been used in BSc course for various projects.
- **Engineering Packages: Catia, AutoCAD**
Catia, has been used in BSc course for various projects.

Memberships:

- The member of Novin Robotic Society of Shiraz, summer of 2010.
- The member of Saba Music Orchestra, Shiraz, since 2011.
- The member of Music Group of Yasouj University, since 2011.

Research Interests:

- Analysis Type:
 - Large Deformation
 - Plasticity
 - Energy Absorption Mechanisms
- Material Type:
 - Composites
 - Metals
 - Polymer Foams

References:

- Name **Dr. Abbas Niknejad**
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