

# CV

## Seyed Mohammad Elahi

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Date of Birth: 4<sup>th</sup> August 1991

### Education Profile:

#### 2009-2013

- **Bachelor of Mechanical Engineering in Design of Solids** since **September 2009** until now, **Yasouj University, Iran**. Courses Degree Percentage Until Now = **76.65% (15.33/20)**, BEng dissertation: **Theoretical and experimental investigation of flattening process on the empty and filled rectangular metal columns with different cross-sections**. (dissertation grade: 20/20)

### 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**. Volume13, 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", 11<sup>th</sup> 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", 12<sup>th</sup> 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", 12<sup>th</sup> 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 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 "Nono" workshop, The State University of Yasouj**, February 2013.

### **Technical Skills:**

- **Programming Languages: Matlab and C++**  
Matlab has been used in BSc course for various projects.
- **Engineering Packages: AutoCAD, Abaqus, Catia, Working Model**  
Catia, has been used in BSc course for various projects.

### **Memberships:**

- 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:
  - Metals
  - Polymer Foams

### **References:**

- Name                      **Dr. Abbas Niknejad**  
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