

Amir Razaz Zadeh

Department of Mechanical Engineering, Isfahan University of Technology, Iran

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Education

2012 – 2015 M.Sc. in Mechanical Engineering (Applied Design) - Department of Mechanical Engineering, Isfahan University of Technology (IUT), Isfahan, Iran.
Overall GPA: **15.79/20**
Thesis: “**Simulation of Three-Roller Sizing Process of Seamless Tube Manufacturing Using Damage Mechanics Principles**”.

Supervisors: 1- Prof. M. Farzin

2- Dr. R. Jafari Nedoushan

Examiners: 1- Prof. Dr. M. Mashayekhi

2- Dr. J. Parvizian

2008 – 2012 B.Sc. in Mechanical Engineering (Solid Mechanics) - Department of Mechanical Engineering, Golpayegan College of Engineering (GUT) - Isfahan University of Technology (IUT), Golpayegan, Isfahan, Iran.
Overall GPA; **17.08/20**
B.Sc. Project: “**Eulerian Simulation of Solid Particles in Liquids Using FLUENT Software**”

Supervisor: Dr. B. Asadi

2004 – 2007 High school Education in Mathematics & Physics, Isfahan, Iran
Overall GPA: **19.24/20**

Honors and Awards

- ❖ Graduated from one of the top 4 universities in Iran (IUT)
- ❖ Received a full scholarship for M.Sc. degree from the Ministry of Science, Research and Technology
- ❖ Received a full scholarship for B.Sc. degree from the Ministry of Science, Research and Technology
- ❖ Third Place in Mechanical Engineering Department in B.Sc
- ❖ Ranked in the top 5% among 320,000 applicants in the Iranian national university entrance exam (Konkor), 2008
- ❖ Top student in high school

Preferred Research Interests

- ❖ FEM Simulation of Mechanical Processes
- ❖ 3D Modeling and Solids Design
- ❖ Computational Plasticity
- ❖ Mechatronic and Control Systems

Publications

- **Razazzadeh, Y.** Barzegar, R. Jafari Nedoushan, M. Farzin, “Damage Growth Prediction in Seamless Tube Manufacturing by Cold Three-roller Tube Rolling Process”, *Modares Mechanical Engineering*, Vol. 15, No. 8, pp. 41-50, 2015 (In Persian).
- Y. Barzegar, R. Jafari Nedoushan, **A. Razazzadeh**, M. Farzin, D. Banabic, “Finite Element Modeling of Damage Evolution in Cold Pilgering Process”, *Proceedings of The Romanian Academy, Series A*, Vol. 17, Num. 3, pp. 267-276, 2016.

Conference papers and presentations

- **Razazzadeh, Y.** Barzegar, R. Jafari Nedoushan, M. Farzin, “Investigation of Friction Effect on Damage in Seamless Pipes Produced by The Rolling Process Using Finite Element Modelling”, *Proceedings of the 1st National Conference on Development of Civil, Architecture, Electrical and Mechanical Engineering in Iran*, 2014 Dec 18, Gorgan, Iran, Available at URL: <https://civilica.com/doc/326320> (In Persian).

Research Experiences and Academic Projects

- ❖ “**Bending and Cutting Die Design - Progressive Punching and Blanking Dies for Sheet Metal Working**”, Rajabi Die Design Workshop, 2018-Present
- ❖ “**3D Modeling and Structural Analysis of Forklifts under critical loads Using ABAQUS Software**”, Sepahan Forklift Company, 2017
- ❖ “**3D Modeling and FEM Analysis of 8MN Extrusion Press Using Ansys Software**”, Qaem Cooper Industrial Company, 2016-2017
- ❖ “**3D Modeling and FEM Analysis of Planetary Rolling Process Using ABAQUS Software**”, Qaem Cooper Industrial Company, 2016
- ❖ “**Implementation of User Subroutine Material Model (UMAT) Based on Modified Lemaitre Continuum Damage Criterion**”, Isfahan University of Technology, Iran, 2015

Working Experience

Design Engineer, Rajabi Die Design Workshop, 2018-present

R&D Expert, Sepahan Forklift Company, Iran, 2017-2018

R&D Expert, Qaem Cooper Industrial Company, Iran, 2016-2017

Internship, SAIPA Golpayegan Automobile Manufacturing, Iran, 2009-2011

Selected Workshops and Certificates

- ❖ **Maintenance Training Workshop of Airplane Tow tractors**, SCHOPF Ground Support Equipment Company, Stuttgart, Germany, 2018
- ❖ **Maintenance Training Workshop of Reach Stackers**, CVS Ferrari Company, Piacenza, Italy, 2018
- ❖ **Computational Plasticity to Define Material Model Subroutines for ABAQUS Using Fortran**, Isfahan University of Technology, Iran, 2015
- ❖ **Advanced Computer-Aided Design (CAE) Course**, Isfahan University of Technology, Iran, 2015
- ❖ **Fundamental Hydraulics Course (H511)**, Kian Control (FESTO Didactic Representative), Iran, 2010

Summary of Skills

❖ English Proficiency

- **IELTS exam:**

Listening: 7 Writing: 6 Reading: 6 Speaking: 6.5 **Overall: 6.5**

❖ Computer Skills:

- **Advanced Level:**

- ✓ ABAQUS CAE
- ✓ SOLIDWORKS
- ✓ General software: Windows, Microsoft Office

- **Basic Level:**

- ✓ MATLAB
- ✓ Fluent
- ✓ Ansys
- ✓ CATIA
- ✓ AUTOCAD

Hobbies and Interests

- ❖ Sport: Gym and exercise, Table Tennis
- ❖ Reading: Historical Novels, Sci-fi Novels
- ❖ Voluntary Activities: Tutoring, Social Event Holding

References and Recommendations

- ❖ **Prof. Dr. Mahmoud Farzin, Professor** (M.Sc. thesis supervisor)
Mechanical Engineering Department, Isfahan University of Technology, Isfahan, Iran
Email: farzin@cc.iut.ac.ir and dr_farzin@yahoo.com
Tel: +98 313 391 2625
Web Site: <https://farzin.iut.ac.ir>

- ❖ **Dr. Reza Jafari Nedoushan, Associate Professor** (M.Sc. thesis supervisor)
Mechanical Engineering Department, Isfahan University of Technology, Isfahan, Iran
Email: rjafari@cc.iut.ac.ir
Tel: +98 313 391 5227
Web Site: <https://rjafari.iut.ac.ir>

- ❖ **Dr. Jamshid Parvizian, Associate Professor** (M.Sc. thesis Examiner)
Mechanical Engineering Department, Isfahan University of Technology, Isfahan, Iran
Chair of Computation in Engineering, Technical University of Munich, Munich, Germany
Email: japa@cc.iut.ac.ir
Tel: +98 920 500 1560
+49 89 289-25058
Web Site: <https://parvizian.iut.ac.ir>

- ❖ **Prof. Dr. Mohammad Mashayekhi, Professor** (M.Sc. thesis Examiner)
Mechanical Engineering Department, Isfahan University of Technology, Isfahan, Iran
Email: mashayekhi@cc.iut.ac.ir
Tel: +98 313 391 5216
Web Site: <https://mashayekhi.iut.ac.ir>

- ❖ **Dr. Bahman Asadi, Assistant Professor** (B.Sc. Project Supervisor)
Mechanical Engineering Department, Golpayegan College of Engineering, Golpayegan, Isfahan, Iran
Email: b.asadi@iut.ac.ir