Personal Information:

Full Name: Mohamad Pasandidehpoor
Gender: Male
Date of Birth: December 31, 1990
Phone: +98 9107493902
Email: Mohammad.pasandidehpoor@inestec.pt

Education:

- 2022 – present
  Ph.D. in Mechanical Engineering,
  Faculty of Engineering, University of Porto
- 2014-2017
  Master of Science in Mechanical Engineering,
  Khaje Nasir Toosi University of Technology (KNTU)
  Major: Automotive, Body & Structure Design
  Thesis Topic: Multi-objective design optimization for crash safety of vehicle with viscoelastic body and wide tapered multi-cell energy absorber using DOE method
  Supervisor: Prof. M. Shariyat
  GPA:14.22 (71.1/100)
- 2009-2014
  Bachelor of Science in Mechanical Engineering,
  Iran University of Science and Technology (IUST)
  Major: Automotive Engineering
  Thesis Topic: Development of conceptual models for facile automotive body design in early stages
  Supervisor: Dr. A. Khalkhali **GPA:** 15.51/20 (77.55/100)

Research & Work Experience:

- 2021-present
  Research Fellow in INESCTEC- University of Porto, Porto, Portugal
- 2019-2020
  Research Fellow in TEMA -Mechanical Engineering department
  University of Aveiro, Portugal
- 2018- 2019
  R&D expert in electric motor manufacturer Electrogen
- 2017- 2018
  Mechanical Engineer in TM.P. S.p.A. - Termomeccanica Pompe (Iran)
- 2015-2016
  QC Engineer in automotive part manufacturer Iran Cim
- 2012-2013

Undergrad research engineer in national project of design of a B-class sedan automobile platform

- 2011-2012
  Intership in automobile manufacturer Mega Motors

Publication:

- **M. Pasandidehpoor**, J. Mendes-Moreira, SR. Mohammadpour, R.T Sousa, Predicting US Energy Consumption Utilizing Artificial Neural Network, Hand Book of Smart Energy Systems 2022, 1-24
- H. Saeidi Googarchin**, M. Pasandidehpoor**, A. Mahmoodi, MH. Shojaefard, Energy absorption analysis for foam-filled tapered multi-cell thin-walled tubes: theoretical development and numerical simulation, Composite Structures 207 (2019) 213–222
- A. Mahmoodi, S. Mahdavi, **M. Pasandidehpoor**, J. Marzban, Experimental and numerical investigation on cutting deformation energy absorption in circular tubes under axial impact loading by damage criterions, Thin-Walled Structures 120 (2017) 269-281
- **M. Pasandidehpoor**, M. Shariyat, Multi-objective design optimization for crash safety of vehicle with viscoelastic body and wide tapered multi-cell energy absorber using DOE method, International Journal of Automotive Engineering 2017, 7(3): 2448-2465
- **M. Pasandidehpoor**, Shariyat M, Vincze GT, Lopes ALB, Pereira AMB. Multiobjective design optimization for wide tapered multi-cell energy absorber made of aluminum, 3rd Doctoral Congress in Engineering (DCE 2019), 27-28 June, 2019, FEUP, Porto, Portugal
- **M. Pasadidehpoor**, G. Vincze, A.B. Pereira, A.B. Lopes, M.C. Butuc, Influence of process parameters in asymmetric rolling, 2nd International Conference of TEMA: Mobilizing Projects, 8-9 July, 2019, UA, Aveiro, Portugal

Honors and Awards:

- Ranked among top 2% of more than 300000 participants in the national Entrance exam, Iran, 2008.
- Ranked among top 2% of graduate students in Automotive Engineering Department of Iran University of Science & Technology.
- FCT Scholarship for Produtech project 2022. Porto. Portugal

Computer Skill:

Programing:

- Python (**Very High Proficiency**)

- MATLAB (**Very High Proficiency**)
- C++ (**High Proficiency**)
- Minitab (**Well Familiar**)

Engineering Software:

- ABAQUS (**Very High Proficiency**)
- Lsdyna (**High Proficiency**)
- AutoCad (**High Proficiency)**
- SolidWorks (**High Proficiency**)
- CATIA (**High Proficiency**)
- Pam Crash (**High Proficiency**)
- SEM & TEM Analyzer (**High Proficiency**)
- X-ray Diffraction & EBSD (**High Proficiency**)
- MTEX & ATEX (**High Proficiency**)
- Beta CAE Systems (**Well Familiar**)

General Software:

- Microsoft Office (Word, Excel, PowerPoint, Project)

Language Proficiency:

English:

- IELTS 6.0 Overall Band Score

FARSI:

- Native Language

Research Interest:

- Artificial Intelligent
- Machine Learning
- Digital Manufacturing
- CAM & CAD Software development
- Automotive Structure & Body
- Finite Element Analysis
- Crystal Plasticity
- Diffraction and Imaging Techniques
- Metaheuristic Optimization Methods
- Failure Mechanisms

Reference:

Hamed Saedi Googarchin

Automotive Engineering Department of Iran University of Science and Technology, Tehran Iran. Phone No.: +98 912 5040359 Email Address:

hsaeidi@iust.ac.ir