Milad Rezaie

Contact

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Education

Present	University of Houston, Houston, TX
2022	Doctor of Philosophy, Civil Engineering
	Adviser: Dr. M. Momen
2020	Sharif University of Technology, Tehran, Iran
2016	Master of Applied Science, Mechanical Engineering, July 2020
	Cumulative GPA: 15.80/20 (26 Credits)
	Thesis: Comparative study of gasoline and ethanol in a SI engine using CFD simulation
	Adviser: Dr. V. Hosseini
2016	Sharif University of Technology, Tehran, Iran
2011	Bachelor of Applied Science, Mechanical Engineering, January 2016
	Cumulative GPA: 16.18/20 (148 Credits)
	Thesis: The design, fabrication and testing of the control system for the SUT-2 AUV
	Adviser: Dr. M.S. Seif
2011	NODET, Kurdistan, Iran
2007	Secondary School Diploma, Mathematics and Physics, September 2011
	Cumulative GPA: 19.20/20

Research Interests

- CFD coding and modeling
- Turbulent Flows
- Artificial Neural Network

Publications

- "Identification of the equivalent linear dynamics and controller design for an unmanned underwater vehicle", Ocean Engineering

Skill Summary

- Skilled in simulating 3D models of reacting flows
- Skilled in Working with test equipment in Engine Labs, like dynamometer, etc
- Skilled in simulating dynamic systems using MATLAB
- Knowledge and experience in both Fortran and ANSYS
- Knowledge and experience in ANN and Machine Learning using Python and Matlab
- Knowledge and experience in design and fabricating controller for embeded systems using MATLAB-SIMULINK
- Knowledge and experience in System Identification using CIFER

Honors and Awards

2016 | 8TH place in the 21TH national mechanical engineering Olympiad , Iran.

2016 | 7TH place in the nation-wide university entrance examination for mechanical engineering students (about 20,000 participants), Iran.

2011 | 74TH place in the nation-wide university entrance examination (252,312 participants), Iran.

2010 | Accepted in the first round, The 7TH National Olympiad on Physics, Kurdistan, Iran.

2010 | Accepted in the first round, The 7TH National Olympiad on Mathematics, Kurdistan, Iran.

Computer Skills

Skilled in | AVL, Converge, ANSYS, Fortran, MATLAB, SolidWorks, MS Office

Familiar with | Python, Labview, AVR, HTerm, AutoCAD, LaTeX, C, C++, Adams

Languages

Kurdish — Mother Tongue

Persian — Native

English — Fluent written and spoken
TOEFL iBT: 102/120 (Reading:30, Listening:29, Speaking:21, Writing:22)(test date: Nov 2020)
GRE general test (Writing:3/6, Quantitative:170/170, Verbal:148/170)(test date: Jan 2021)

Experiences

March 2018 – May 2018 | Sharif University of Technology, Mechanical Engineering Dept.
Project: Simulation of fluid flow in a 2-dimentional channel using ANSYS Fluent
Adviser: Dr. B. Farhaneh

Fall 2016 | Sharif University of Technology, Mechanical Engineering Dept.
Marking and TA, Advanced Mathematics 1
Adviser: Dr. A. Moosavi

Fall 2015 | Sharif University of Technology, Mechanical Engineering Dept.
Marking and TA, Thermodynamics 1

Fall 2014 | Sharif University of Technology, Mechanical Engineering Dept.
Marking and TA, Measurement and Control Systems

Dec 2013 – Oct 2012 | Sharif University of Technology, Mechanical Engineering Dept.
Project: Simulated and modelled identical dynamic of an Angry Birds game
Adviser: Dr. H. Nejat Pishkenari
• Simulated trajectory with predefined obstacles and kinematic characteristics using Matlab.

Extracurricular Activities

Jun 2019 Dec 2013	Sharif University of Technology, Mechanical Engineering Dept. Contact with professors committee head of Sharif Mechanics Magazine
Dec 2013	Sharif University of Technology, Mechanical Engineering Dept. Executive committee member of the 8TH Sharif Mechanics Industrial Festival
March 2013	Sharif University of Technology, Mechanical Engineering Dept. New science and technology committee Member of Sharif Mechanics Magazine
Dec 2012	Sharif University of Technology, Mechanical Engineering Dept. Executive committee member of the 3RD national conference on industrial ventilation and hygiene

Hobbies

Soccer, Chess, Volleyball

References

Dr. Mostafa Momen

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