

## Contact Info

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## Education

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- **Doctor of Philosophy, Civil Engineering**  
University of Houston, Houston, TX  
January 2022-present  
Adviser: Dr. M. Momen
- **MSc. in Aerospace Engineering, Aerodynamics**  
[Amirkabir University of Technology \(Tehran Polytechnic\)](#), Tehran, Iran.  
September 2016-2019  
Thesis: "*Experimental Study of Yawed Inflow Angle on the Performance of a Propeller Intend to Power Extraction*".  
Supervisor: Dr. M. Saieedi, Dr. S. Nouri  
Overall GPA: (17.91/20)
- **B.Sc. in Mechanical Engineering**  
September 2010 – 2014  
[University of Hormozgan](#), Bandarabbas, Iran.  
Thesis: "*Reverse Engineering of Boiler Circulation Pump's Diffuser* "  
Supervisor: Dr. S. J. Hemmati  
Overall GPA: (15.95/20)

## MAJOR INTERESTS

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- **Research & Development Activities**
- **Aerodynamics**
- **Computational Fluid Dynamics**
- **Sustainable Energy**
- **Computer programming**
- **Machine Learning**

# Skills

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- **Language Skills**

**English** : IELTS- 2020

**Score: overall 7.5** (Reading: 7.5, Listening: 8.5, Speaking: 6.5, Writing: 6.5)

**Persian: Native**

- **General Computer & IT Skills**

Network+

Cisco Certified Network Associate Routing & Switching (CCNA)

Microsoft Certified Solutions Expert (MCSE)

Microsoft Office Word, Excel, PowerPoint

Linux Professional Institute (LPIC-1& LPIC-2), Redhat, CentOS, Debian, Ubuntu

VMware Virtualization, ESXi

Cloud Computing

Git

Docker

- **Programming**

C, FORTRAN

Object Oriented: C++

Scripting: Python, Bash shell

Other : VOIP Asterisk (AGI & AMI programming), HTML & CSS

- **Technical Software**

**ANSYS-Fluent:** Heat Transfer, Turbulent & Laminar Flow, Transient

**ANSYS Meshing & Design Modeler:** 2D & 3D Grid Generation

**GAMBIT**

**ICEM CFD:** 2D & 3D Grid Generation

## **OpenFOAM & Paraview**

**CATIA:** Sketcher, Part Design, Assembly Design, Drafting, Wireframe & Surface, Generative Shape Design

**MATLAB:** ANN & Genetic toolbox, CFD Analysis

## **Academic & Industrial Experiences**

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- **Teaching Experiences**

**Teaching CFD and FORTRAN programming (September 2018 - January 2019),**  
Amirkabir University, Tehran, Iran, Faculty of Aerospace Engineering

**CATIA Teacher (September 2013 - January 2014) ,** University of Hormozgan,  
Bandarabbas, Hormozgan, Iran. Faculty of Engineering - Course Title: 3D Modeling  
by CATIA

- **Selected Academic Projects**

**Master Thesis,** “Implementing a wind tunnel testing of a horizontal wind turbine model at Dana laboratory of Amirkabir university of Tehran.”

- Designing and instructing a 3D model of wind turbine
- Investigating the performance of turbine blades through a 2D simulation
- Measuring the performance and wake of 3D model in wind tunnel
- Analysis the extracted data

**Optimization Course,** “Flow Analysis and Optimization of Lift per Drag Over an Airfoil”

- Grid generation in Gambit
- Flow analysis in Fluent
- Preparing journal file
- Coupling GAMBIT, Fluent & MATLAB in an optimization loop by genetic algorithm