MOHSEN KOORANI MASKAN

AeroSpace Engineer & Back-end Developer

CONTACT

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SKILLS

PROFESSIONAL SKILLS

- C#
- SQL Server
- HTML & CSS
- Java Script
- Angular
- Python
- Matlab
- Maple
- Fortran
- Android
- StimulSoft
- Git
- C / C++

PERSONAL SKILLS

- Creativity
- Leadership
- Organization
- Teamwork
- Initiative

PROFILE

I'm an engineer having academical aerospace knowledge and mastered in softwares related to it. On the other hand a junior back-end developer with over 2 years of experience in an top notch organization and a creative person with the ability of managing the projects and participate in teamworks.

PROFESIONAL EXPERIENCES

PENDAR IDEAS — 2018 - present
Full Stack Developer
Hired as junior back-end developer and them I become full stack developer at Pendar Ideas. I've had the opportunity to design and develop with awesome team from all over Iran

EDUCATION

K. N. T. Univesity of Technology
Tehran, Iran
Master of Structural Engineering
Final Score: 17.87/20
2017 - 2020

Urmia University of Technology
Urmia, Iran
Bachelor of AeroSpace Engineering
Final Score: 16.31/20
2013 - 2017

Programming in C#
Sematec co., Tehtan, Iran
Score: 95/100
March 2018

Android Applocation Development
IEEE Branch of K. N. T. University of Technology, Tehran, Iran
April 2018

TEACHING EXPERIENCE

K. N. T. Univesity of Technology
Tehran, Iran
Teacher Assistant
Advanced Structural Analysis
Msc of AeroSpace Engineering
Spring 2018

K. N. T. Univesity of Technology
Tehran, Iran
Programming in Matlab
Spring 2018

K. N. T. Univesity of Technology
Tehran, Iran
Teacher Assistant
Mechanics of Materials
Bsc of AeroSpace Engineering
Spring 2018

Urmia University of Technology
Urmia, Iran
Design in Catia
Fall 2015

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Languages

Persian (Native)

English

SKILLS

PROFESSIONAL SKILLS

Abaqus

Ansys

Fluent

Catia

Solid Works

Comsol Muliphysics

Microsoft Office

Gambit

Nastran - Patran

Open Foam

Adobe Photoshop

Adobe Indesign

More Info

Birth: 1994

Military Service Status: Exemptions for special cases

ACADEMIC EXPERIENCES & HONORS

- Aerodynamics project: Implementation of Analysis of flow on cylinders and airfoils by panel method.
- Computational fluid dynamics project: Implementation of Heat transfer analysis at different speeds and boundary conditions.
- Heat transfer project: Implementation of Heat transfer analusis in different specimens and counditions.
- Flight mechanics project: Sample flight route implementation and route, flight parameters and control parameters calculation.
- Aircraft design project: Theoretical design of regional propeller aircraft.
- Industrial design project: Theoretical design of quadcopter.
- Advanced industrial design project: Theoretical design of turbo-fan engine.
- Advanced composite structures project: Implementation of composite structure analysis, their Failure and progress of their failure by Python and Matlab programming languages.
- Advanced finite element method project: Implementation of general structure analysis process using finite element method by Python and Matlab programming languages.
- Aeroelastic project: Implementation of Analysis of instability and divergence of aircraft structure at variable altitude by Python, Maple and Matlab programming languages.
- Optimization project: Implementation of genetic algorithms and other optimization algorithms (such as BFGS, DFP, FR, etc ...) by Python and Matlab programming languages.
- Full design of pioneer UAVs (details and generalities).
- Secretary of the association of Inventors and Researchers of urmia university of technology, 2015 - 2017.
- Ranked **3rd** in the class of 2013, Aerospace Engineering Dept. of urmia university of technology.
- Ranked **1st** in the class of 2017, Aerospace Engineering - Structural Engineering Dept. of K. N. T. university of technology.
- Bsc Thesis: Improving diesel engine performance by controlling cavitation in injector nozzles (analysis by Ansys - Fluent commercial software).
- Msc Thesis: Progressive damages analysis due to mechanical and thermal loads on composite laminates (analysis by Abaqus commercial software and a general and innovative python script for simulate progress of damage and failure).