






# MOHSEN KOORANI MASKAN

AeroSpace Engineer & Back-end Developer

## CONTACT

-  Karaj, Alborz, Iran
-  +98 26 3232 2604 (Home)  
+98 910 988 3120 (Mobile)
-  <https://www.linkedin.com/in/MohsenKooraniMaskan>
-  <https://KevinKoorani.github.io/>
-  MKM.Koorani@Outlook.com

## SKILLS

### PROFESSIONAL SKILLS

C#  
WPF  
.Net (Framework/Core)  
Entity Framework / Core  
ASP.Net (MVC/Core) - WebApi  
OOP and Solid Principles  
Design Patterns  
SQL Server  
UML & Data Modeling  
StimulSoft  
Unit & end2end Testing  
Python  
Git  
HTML & CSS  
Angular  
Matlab  
Maple  
C / C++  
Fortran



## PROFILE

Back-end developer with over 4 years of experience in an top notch organization and a creative person with the ability of managing the projects and participate in teamworks. Skilled in C#, SQL Server, UML Modeling, Familiar with the implementation of human resource processes and very eager to learn new technologies.

## PROFESSIONAL EXPERIENCES

### PENDAR IDEAS

BackEnd Developer

2018 - present

I'm honored to work as a part of such a awesome team from all over Iran. my tasks and achievements are:

- Design and development of a framework for generating reports using StimulSoft.
- Design and development of various reports for human resource management applications. (Logics and corresponding output in StimulSoft).
- Design and development of a windows application to extract data from time attendance devices (different types of devices) and upload into the company's product database.
- Improve company's old designs and development of company products.
- Management of servers and databases of the company's products.
- Create UML models of company products by MagicDraw.
- Write e2e tests with selenium framework and unit tests for different parts of the company's products.

## 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

## TEACHING EXPERIENCE

### K. N. T. Univesity of Technology

Tehran, Iran

Teacher Assistant

Msc of AeroSpace Engineering

- Advanced Structural Dynamics
- Advanced Structural Analysis
- Advanced Composite Structures
- Advanced Finite Element Methods
- Mechanics of Materials

### K. N. T. Univesity of Technology

Tehran, Iran

Teacher

- Python Programming
- MATLAB Programming
- Abaqus Software
- Catia Software

# MOHSEN KOORANI MASKAN

AeroSpace Engineer & Back-end Developer

## Languages

Persian (Native)

English

## SKILLS

### PERSONAL SKILLS

Creativity

Leadership

Organization

Teamwork

Initiative

### 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

Requested salary per month:

100,000,000 Rials

## ACADEMIC

AeroSpace Engineer with a master's degree from Khajeh Nasir University of Technology with more than 3 years of work experience in the field of aerospace and fluent in related software.

## PROFESSIONAL EXPERIENCES

ARIA SABOKBAL  
Designer

2014 - 2017

I'm honored to work as designer and after 2 years as the head of design department. my tasks and achievements are:

-Scientific design and production of various parts of light aircraft (2 to 8 people).

## HONORS

- Secretary of the association of Inventors and Researchers of urmia university of technology, 2015 - 2017.

- Ranked 3<sup>rd</sup> in the class of 2013, Aerospace Engineering Dept. of urmia university of technology.

- Ranked 1<sup>st</sup> 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).

## OTHER EXPERIENCES

- Aerodynamics project: Implementation of Analysis of flow on cylinders and airfoils by panel method by Matlab.

- Computational fluid dynamics project: Implementation of heat transfer analysis at different speeds and boundary conditions by Matlab.

- Heat transfer project: Implementation of heat transfer analysis in different specimens and conditions by Comsol and Matlab.

- Industrial design project: Theoretical design of quadcopter by Catia.

- Advanced industrial design project: Theoretical design of turbo-fan engine by Catia.

- Advanced composite structures project: Analyse progress of failure in composite structures by Python and Matlab.

- Advanced finite element method project: Implementation of general structure analysis process using finite element method by Python and Matlab.

- Aeroelastic project: Analysis of instability and divergence of aircraft structure at variable altitude by Python, Maple and Matlab.

- Optimization project: Implementation of genetic algorithms and other optimization algorithms (such as BFGS, DFP, FR, etc ...) by Python and Matlab.

- Full design of a pioneer UAV (both generalized and detailed).