

ALI NOURIANI

MECHANICAL ENGINEERING DEPARTMENT

SHARIF UNIVERSITY OF TECHNOLOGY

PERSONAL INFORMATION

Mechanical Engineer, Applied Mechanics

Birth: November 10th, 1993

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INTERESTS

Mechatronics

Nonlinear and Robust Automatic Control

Advanced Manufacturing

Automotive and Electric Vehicles

Biomechanics

Molecular Dynamics

Mechanics of Materials

EDUCATIONAL BACKGROUND

SHARIF UNIVERSITY OF TECHNOLOGY

M.Sc. Mechanical Engineering, Applied Mechanics

2016-2018

Overall GPA: 18.68 / 20

SHARIF UNIVERSITY OF TECHNOLOGY

B.Sc. Mechanical Engineering

2012 - 2016

Overall GPA: 18.88 / 20

ALLAMEH HELLI HIGH SCHOOL -NODET*-TEHRAN, IRAN

High school Diploma in Mathematics and Physics

Overall G.P.A: 19.72 / 20

*NODET, National Organization for Development of Exceptional Talents

SCORES

TOEFL IBT: 102

R:29 L:30 S:20 W:23

GRE IBT: 326

Q:170 V:156 W:3.5

AWARDS & HONORS

- Amongst the **Top Ten** of more than 120 B.Sc. students, School of Mechanical Engineering, Sharif University of Technology, 2016.
- **Ranked 115th** among more than 260 thousand students in the B.Sc. University Entrance Exam.

- **Merit-based Admission to the M.Sc. Program** at the Mechanical Engineering Department, Sharif University of Technology, 2016.
- National Elites Foundation **Academic Award** 2013-2018.
- Member of the **National Elites Foundation** since 2013.
- Third prize of the Capital at **Khwarizmi Youth Award** 2010.

EXPERIENCES

- Design and manufacture of a vacuum frying machine, Fall 2018
- Wind turbine robust power control with smooth switching between operational regions using a two-mass model (Excellent Score), M.Sc. Thesis, 2018 (Two under-review and with-editor papers)
- Part Time Working Experience in Iran Process Co., since Summer 2017
- Research Assistant at Control Systems Lab, Spring 2017 – Spring 2018
- Design of PID controller & Lead-Lag compensator for wind turbines: A comparison in robust performance, 3rd Green and Sustainable Chemistry Conference, Spring 2018
- Teacher Assistant at Strength of Materials Lab, Fall 2016 - Spring 2017
- Certificate of Comprehensive Applied Technology course (Excellent degree), Summer 2016 - Fall 2017
- Design and Simulation of Somerset Robot (Full Score), B.Sc. Thesis, Summer 2016 (one under-review paper)
- Implementation of teaching a lesson with the help of a robot, robotics selected term project, Spring 2016
- Internship in R&D Section of Tehran Wagon Production Company, Fall 2015
- CNC Machining Project with G-code, Manufacturing Methods selected project, Spring 2015
- Designing a 2-stage gearbox, Machine Element Design project, Fall 2014
- A numerical method to calculate circular blade temperature distribution, Heat transfer selected term project, Fall 2014
- Designing a Crane for the department creative workshop, selected design of the Machine Element Design course, Spring 2014

SKILLS

Programming

Expert in: C, C++, Java, Pascal, G-code, ARM-Discovery Board

Familiar with: Visual Basic, HTML, PHP, Android Studio, LaTeX

Software

Expert in: SolidWorks, CATIA V5, MATLAB, Simulink, MSC ADAMS, ANSYS,

Proteus Professional, AutoCAD, Adobe Muse, Microsoft Office

Familiar with: Abaqus, Adobe Photoshop, Adobe After Effects

Systems

Expert in programming and implementing microprocessor

Experience with using lathes and milling devices and other machine tools

REFERENCES

DR. A. ALASTI

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DR. H. MORADI

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