

# Mahdi Abdollahchalaki

## Mechanical Engineering student

Department of Mechanical Engineering, University of Tehran, Tehran, Iran

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## Education

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**2017 - Present**

### **B.Sc. in Mechanical Engineering**

University of Tehran, Tehran, Iran

- Cumulative GPA : 18.55 / 20 (3.94/4) (So far)

- Ranked 3rd among 128 students

**2018 - Present**

### **Minor in Management**

University of Tehran, Tehran, Iran

- Cumulative GPA : 18.81/20 (4/4) (So far)

**2010 - 2017**

### **Mathematics & Physics Diploma**

Shahid Soltani Highschool, Karaj, Iran

- National Organization for Development of Exceptional Talents (NODET) School

- Cumulative GPA : 4/4

- top 5 among 120 students

## Research Experience

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**Jul 2020 - Present**

### **Research Assistant**

AIME Lab, University of Tehran, Tehran, Iran

Using computer vision & Machine learning techniques to landmark human body bones

Under supervision of Dr. Shariatpanahi

<https://www.linkedin.com/company/aime-lab/>

## Teaching Experience

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Teaching Assistant, University of Tehran:

- General Physics I (Mechanics) - Dr. Maryam Zoghi (Fall 2018)
- Design of machine elements I - Dr. Aliashghar Ataee (Fall 2019)
- Design of machine elements II - Dr. Karen Abrinia (Spring 2020)

## Work Experience

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Jul 2020 - Sep 2020

### Internship

Parsian Kara Sanat Co, Karaj, Iran

Modelling a rubber-producing machine and its gearbox

## Skills

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Programming Languages / Tools : MATLAB (Proficient) - Simulink - Python - TensorFlow - Arduino (Familiar with)

CAD and 3D Modelling : Catia - SolidWorks

Simulators : Abaqus , Ansys Fluent (Familiar with)

## Honors and Awards

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- Ranked 3rd among 128 students of Department of Mechanical Engineering
- Gold Medal winner - PAYA International League (Physics contest for high school students)
- Ranked 712 among more than 160,000 (top 0.5%) participants in the Nationwide Universities Entrance Exam, Konkoor [Summer 2017]
- Member of National Organization for Development of Exceptional Talents (NODET) [2010 - 2017]

## Online Courses & Certificates

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- AI Programming with Python Nanodegree (Udacity)
  - Machine Learning (Stanford University - Coursera)
  - Deep Learning Specialization (5 courses - Deeplearning.ai - Coursera)
  - Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning (Deeplearning.ai, Coursera)
  - Convolutional Neural Networks in TensorFlow (Deeplearning.ai, Coursera)
  - Traffic Sign Classification Using Deep Learning in Python/Keras (Coursera Projects Network)
  - Biomedical Image Analysis in Python (DataCamp)
  - Extreme Gradient Boosting with XGBoost (DataCamp)
- (Official certificates available upon request)

## Related Courses

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- Automatic Control (20/20)
- Mechanical Vibrations (18/20)
- Dynamics of Machinery (19/20)
- Circuit and Electric Machines (20/20)

## Language Proficiency

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- Persian : Native
- English : Fluent (IELTS test to be taken by early November)
- Arabic : Familiar

## University & Community Service

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SAME (Scientific Association of Mechanical Engineering) Member:

The existence of voluntary scientific associations is an undeniable part of educational systems around the world. These dynamic groups of passionate students try to help others improve their skills by providing them opportunities in research, skill learning and teamwork experience. University of Tehran has +190 student organizations in different majors including engineering, scientific, cultural and artistic fields. These not-profit societies form the biggest network of student-run organizations at Iran. SAME as the most prestigious, active and honored student association in Iran, plays a critical role in University of Tehran.

## References

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- Dr. Masoud Shariat Panahi, Associate Professor  
College of Engineering / Faculty of Mechanical Engineering  
University of Tehran, Tehran, Iran  
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- Dr. Mojtaba Haghghi Yazdi, Assistant Professor  
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- Zahra Shaterzadeh Yazdi, Assistant Professor  
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