

# 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 Interests

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Robotics

Autonomous systems

Control

Machine learning

## Research Experience

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### 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) (Fall 2018)
- Design of machine elements I (Fall 2019)
- Design of machine elements II (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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- Excellent Student M.Sc. Admission Offer to University of Tehran
- Excellent Student M.Sc. Admission Offer to Sharif University of Technology
- 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

## 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)

## University & Community Service

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Member of SAME (Scientific Association of Mechanical Engineering) - University of Tehran

Member of Scientific Association of Mechatronics - University of Tehran

## Language Proficiency

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- Persian : Native
- English : Fluent
  - o IELTS Scores: Overall 7.5 (Listening: 8.5 / Reading: 8 / Writing: 6.5 / Speaking: 7)