

# Sina Masoumi Shahrababak

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## Education

- **Bachelor of Science, Mechanical Engineering** Tehran, Iran  
*Sharif University of Technology* September 2017-February 2022
  - Relevant passed courses: Introduction to Biomechanics, Applied Electronics, Robotics, Controller Design, Dynamics of Machines
  - GPA: 3.89
- **Diploma in Mathematics** Kerman, Iran  
*Allameh Helli High School* 2010-2017
  - A Member of the National Organization for Development of Exceptional Talents

## Research Interests

- Wearable Computing, Medical Robotics
- Signal Processing, Control
- Machine Learning & Optimization, Computer Vision

## Research Experience

- **A member of TeleRehab Group in Mowafaghian Rehabilitation Center**  
**Goal:** Developing a Mobile Software for Monitoring & Evaluating Parkinson's Patients Movements Tehran, Iran  
Summer 2021
- **Bachelor's Thesis**  
**Title:** Fall Detection System Based on IMU Sensors using Convolutional Neural Networks  
**Advisor:** Dr. Saeed Behzadipour, Department of Mechanical Engineering, Sharif University of Technology

## Work Experience

- **Manufacturing Engineer at Durali System Design and Automation Co** Tehran, Iran  
**CEO and Owner:** Prof. Mohammad Durali, Department of Mechanical Engineering, Sharif University of Technology Since September 2020  
**Project:** Stage machinery manufacturing and design  
**website:** [https://www.dsdaco.com/home\\_en/](https://www.dsdaco.com/home_en/)  
As a university student and a DSDA employee, I have:
  - Supervised a 3-member group of interns
  - Boosted my time management skills and accepted responsibilities
  - Engaged in real-life engineering projects
  - Collaborated in a young talented team
- **Intern at Durali System Design and Automation Co, Manufacturing Section** Summer 2020
- **Intern at Mega Motor Saipa** Tehran, Iran  
**Section:** Overhaul Summer 2019  
**website:** <http://megamotor.ir/en/>
  - overhauling and installing several CNC machines

## Teaching Experience

- **Grader of Linear Control at Sharif University** Tehran, Iran  
**Instructor:** Prof. Alasti, Department of Mechanical Engineering, Sharif University of Technology Winter 2021
  - Simulink and hand-written assignments

▪ **Teaching Assistant of Dynamics at Sharif University**

**Instructor:** Prof. Zohoor, Department of Mechanical Engineering, Sharif University of Technology

Tehran, Iran  
Fall 2020

- Supervised a ten-member group of students

▪ **Volunteer Teacher at Society of Students Against Poverty**

**Section:** Ahmad Abad Mostofi [Iranian home](#)

**website:** <https://sosapoverty.org/en/>

Tehran, Iran  
Since  
November 2018

- Supervising elementary school students

▪ **Teaching Assistant of Fundamentals of Programming at Sharif University**

**Instructor:** Marjan Nikbin, Department of Computer Engineering, Sharif University of Technology

Tehran, Iran  
Fall 2018

**Course Page:**

<http://ce.sharif.edu/courses/9798/1/ce1533/index.php/section/syllabus/file/syllabus>

## **Awards & Honors**

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- 11<sup>th</sup> Student among 120 Senior Mechanical Engineering Students.
- Ranked 104<sup>th</sup> in Nationwide Undergraduate Entrance Exam Among More Than 150,000 participants, 2017.
- “Brilliant Talented Student Title” From Iran Graduate and Admission Office for Being in The Top 0.1% in Iran National Entrance Exam Among Over 150,000 Participants, 2017.

## **Computer & Programming Skills**

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- Machine Learning (*Coursera, Andrew Ng*), Deep Learning Specialization (*Coursera, Andrew Ng*), AI for Medical Diagnosis (*Coursera*), ANNs, CNNs and RNNs
- Programming:  
Advanced: MATLAB, C, Python (Including NumPy, Pandas, Matplotlib libraries)  
Basic: HTML, CSS
- Mechanical Engineering Software: Solidworks, Simulink, Ansys Fluent, ICEM CFD, Proteus, Arduino

## **Test Scores:**

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- **TOEFL iBT** 3.27.2021  
Total score: 111, R: 30, L: 30, S: 24, W: 27

## **References**

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- [Saeed Behzadipour](#)  
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