

# Ali Khoddoum

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CONTACT INFORMATION +98 (921)148-6151  
Iran, Tehran

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Sex: male | Date of birth: 2001

## EDUCATION

### **Amirkabir University of Technology - Tehran Polytechnic (AUT)**, Iran, Tehran

Master, Mechanical Engineering - Applied Design, Sep 2023 - Present  
403 QS World University Rankings in 2025.

### **Isfahan University of Technology (IUT)**, Iran, Isfahan

B.Sc, Mechanical Engineering,(Highest Ranking Student), Sep 2019 - Sep 2023  
GPA: 3.83 out 4  
489 QS Ranking By Subject in 2025.

### **National Organization for Development of Exceptional Talents (NODET) (SAMPAD)**, Iran, Kerman, Sirjan

High School Diploma, Mathematics, Aug 2013 - Jul 2019  
GPA: 4 out 4

## SUMMARY

Ali Khoddoum was born in Kerman, Iran, in 2001. He completed his middle and high school education at National Organization for Development of Exceptional Talents (NODET) schools from 2013 to 2019. He earned his Bachelor's degree in Mechanical Engineering from Isfahan University of Technology (IUT) in 2023. Currently, he is pursuing a Master of Science in Mechanical Engineering at AmirKabir University of Technology (AUT), where he has been accepted as a highly talented undergraduate student at the Master's program. A dedicated and experienced Mechanical Engineer, Ali has extensive knowledge in various engineering disciplines. His skill set includes expertise in CAE, Matlab, AutoDesk Inventor, Simulink and in Electrical Engineering (Control field). These technical skills, combined with his educational background, position him for diverse career opportunities in mechanical engineering and automation. Potential career paths include roles in industrial automation, control systems engineering, and product development using AutoDesk Inventor. Ali is also open to exploring opportunities in manufacturing, robotics, energy, and research and development.

## FIELDS OF INTERESTS

- Vibrations (Continuous Systems, Non-linear, Based Condition Health Monitoring)
- System Dynamics
- Control systems (Linear, Non-Linear, Advanced, Optimal, Digital)
- Electrical Engineering minor (Control field)
- Mechatronic (Sensors and Actuators, MEMS, NEMS)
- Robotics and Automation
- Mechanism Design
- Finite Element Analysis
- Medical Instruments
- Orthopedic Biomechanics

## Seminars

1. Two-Day Winter School Course on Industry 4.0 Held at Isfahan University of Technology (IUT) 3rd,4th January 2023



## **Softwares and Skills**

- SolidWorks
- Autodesk Inventor
- MATLAB
- Simulink
- ADAMS
- ANSYS Mechanical
- Abaqus
- COMSOL multiphysics
- Ladder Programming
- HMI
- SAM
- Python

## **CERTIFICATES**

- Introduction to Ansys Workbench  
Conducted by the student Scientific Association May 2024
- Motion Study in SolidWorks  
Vocational and Technical Education in Isfahan Province May 2022
- Industrial drawing with SolidWorks  
Vocational and Technical Education in Isfahan Province Des 2021

## **TEACHING EXPERIENCE**

### **Amirkabir University of Technology**

Iran, Tehran

Teaching Assistant

Instructor: Dr. Hamed Ghafarirad  
Course: Automatic Control

Fall 2025

### **Amirkabir University of Technology**

Iran, Tehran

Teaching Assistant

Instructor: Dr. Hamed Ghafarirad  
Course: Mechanical Vibrations

Spring 2025

### **Amirkabir University of Technology**

Iran, Tehran

Teaching Assistant

Instructor: Dr. Hamed Ghafarirad  
Course: Fundamentals of Electrical and Electronics Engineering

Fall 2024

### **Isfahan University of Technology**

Iran, Isfahan

Teaching Assistant

Instructor: Dr. Mohammad Reza Forouzan  
Course: Machine Element Design 1 and 2

Fall 2022 and Spring 2023

### **Isfahan University of Technology**

Iran, Isfahan

Teaching Assistant

Instructor: Dr. Saeed Behbahani  
Course: Automatic Control

Fall 2022

WORK EXPERIENCE	<b>Industry Office of Amirkabir University of Technology</b> Iran, Tehran Research and Development  Feasibility Study of Fuel Supply and Control Systems      April 2024 - June 2025
	<b>Golgohar Mining and Industrial Co</b> Iran, Kerman, Sirjan Internship  Technical Office - Condition Monitoring Office - CCR      Jun 2022 - Sep 2022
HONORS-AWARDS	<ul style="list-style-type: none"> <li>• Merit-based admission to graduate master's program in Mechanical Engineering</li> <li>• Ranked top 15 percent of Mechanical Engineering in B.Sc students</li> <li>• Directly accepted to graduate master program as a highly talented undergraduate student</li> </ul>
REFERENCE	<p><b>Dr.Hamed Ghafarirad</b>            Associate Professor            Department of Mechanical Engineering            Amirkabir University of Technology      E-mail: ghafarirad@aut.ac.ir</p> <p><b>Dr.Mohsen Bahrami</b>            Professor            Department of Mechanical Engineering            Amirkabir University of Technology      E-mail: mbahrami@aut.ac.ir</p> <p><b>Dr.Mohammad Reza Forouzan</b>            Professor            Department of Mechanical Engineering            Isfahan University of Technology      E-mail: forouzan@iut.ac.ir</p> <p><b>Dr.Mohsen Esfahanian</b>            Associate Professor            Department of Mechanical Engineering            Isfahan University of Technology      E-mail: mesf1964@iut.ac.ir</p> <p><b>Dr.Saeed Behbahani</b>            Professor            Department of Mechanical Engineering            Isfahan University of Technology      E-mail: behbahani@iut.ac.ir</p>