

ABOLFAZL MOHAMMADPOUR

Date Of Birth : 12 June 2004

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[GitHub Profile](#)

[GitLab Profile](#)

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[Telegram Account](#)

[Whatsapp Account](#)

ABOUT

I Am Abolfazl, A 20-Year-Old Undergraduate Student In Mechatronics Engineering With A Strong Interest In Combining Engineering And Computer Science With Robotic And Autonomous Systems. As A Sixth-Semester Student, I Strive To Bridge The Gap Between Software And Hardware Technologies In Mechatronic And Robotic Projects. My Expertise Lies In The Design, Development, And Implementation Of Intelligent And Autonomous Systems Using Mechatronics Principles And Deep Knowledge Of Computer Science. During My Academic Journey, I Have Worked On Projects Involving Industrial Automation, The Design Of Functional Robots, And The Optimization Of Complex Systems Using Advanced Algorithms And Programming. This Fusion Of Knowledge Enables Me To Offer Innovative Solutions In The World Of Technology. As Someone Who Constantly Operates At The Intersection Of Engineering, Programming, And Robotics, I Am Eager To Participate In Projects That Allow Me To Apply My Knowledge And Creativity In Enhancing And Designing Complex, Smart Systems.

EDUCATIONS

Iran's National University Of Skills, Isfahan — Bachelor Degree

Sep 2024 - Jul 2026

Mechatronics Engineering

Iran's National University Of Skills, Tehran — Associate Degree

Sep 2022 - Jul 2024

Mechatronics Engineering

Zendeiad Mosa Ranjbar High School, Qaemshahr — Diploma Degree

Sep 2019 - May 2022

Mechatronics Engineering

SKILLS

C Programming Language

C++ Programming Language

Python Programming Language

C Standard Libraries

C++ Standard Libraries

C++ Standard Templates Libraries

Python Standard Libraries

Robot Operating System

Robot Operating System2

CMake Build System

HTML , CSS , JS

Bootstrap, TailwindCSS

Git , Github , Gilab

Windows OS , Linux OS

MicroPython Platform

AMD FPGA Platform

AMD Embedded Processor MicroBlaze Series

VHDL , Verilog

Arduino Platform

Raspberry Pi Platform

AVR Microcontrollers

ARM Microcontrollers STM32 Series

ESP Microcontrollers

SIM Microcontrollers

Industrial Model Designing

EXPERIENCES

Teacher Assistant— *Teacher Assistant*

Mar 2025 - Present

Teacher Assistant Of Embedded System Programming (FPGA Designing) And Professional Programming (Python Programming) Lessons At Iran's National University Of Skills Of Isfahan.

Additive Manufacturing Startup— *Founder*

Oct 2024 - Present

This Is An Additive Manufacturing Startup That Works Specifically On Branch Of FDM (FFF) 3D Printing With Polymer Materials.

Author Of An Introduction To C Standard Libraries Book (First Volume)— *Author*

Jun 2024

Writing A Book About C Standard Libraries In Persian Language For The First Time.

Supervisor Of RoboMech(Robotics And Mechatronics Research Laboratory) — *Supervisor*

Dec 2023 - Jul 2024

RoboMech Is A Research Laboratory At Iran's National University Of Skills Of Tehran That Works On Autonomous Robotics And Mechatronics Systems And Combining Computer Sciences And AI In The Field Of Robotic And Mechatronic Systems

Freelance Teacher — *Teacher*

Sep 2021 - Present

Private Tutoring To University And College Students About Every Things In Computer Science And Mechatronics.

Teacher At Zendeiad Mosa Ranjbar High School , Qaemshahr—*Teacher*

Sep 2021 - May 2022

Teaching C, C++ And Arduino Boards Programming To Students Of Mechatronics And Electronics.

Additive Manufacturing

CAD , CAE , CAM

Industrial Automation

Electronic Circuit Designing

Computer Science

Mechatronic Science

Robotic Science

SOFTWARES

Visual Studio

Visual Studio Code

SolidWorks

Catia

UltiMaker Cura

Simplify 3D

Creality Print

FluidSim

Proteus Design Suite

Altium Designer

Arduino IDE

Arduino Labs For Micropython

Code Vision AVR

STM32 Cube IDE

STM32 Cube MX

Xilinx ISE Design Suite

Xilinx Vivado Design Suite

Microsoft Office Series

LANGUAGES

Persian , English

Programmer At OMCOM, Qaemshahr — *Computers And Embedded Systems Programmer*

May 2020 - Sep 2021

Programming Web Applications With Python, Django, MySQL And
Programming Embedded Systems Based On PIC And DSPIC
Microcontrollers With C And C++ Programming Languages