




# AmirMohammad Nouri

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amirmohammadnouri.github.io 

## Education

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- **Bachelor's Degree in Biomedical Engineering(Bioelectric)** (2020-2024)  
Qazvin Islamic Azad University, Qazvin, Iran  
CGPA:18.8/20(3.8/4)
- **Master of Business Administration** (2021-2022)  
Tehran University, Faculty of Management, Tehran, Iran  
CGPA:19/20(3.8/4)
- **High School Diploma and Pre-University in Natural Sciences** (2014-2019)  
Shahid Soltani2(National organization for development of exceptional talents), Alborz, Iran

## Research Interests

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- **Medical Image Analysis**
- **Medical image 3D reconstruction**
- **Artificial Neural Network**
- **Reinforcement learning**
- **Medical Robotics**

## Publications

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- Gozar Ali Hazareh, Kasra Azizi, Alireza Mazlouni, AmirMohammad Nouri and Mohammad Norouzi (2024). A vision-based approach for quadrotor line following with sliding mode controller. 10th International Conference on Artificial Intelligence and Robotics- QICAR2024

## Patents

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- AmirMohammad Nouri. "Antibacterial hospital bed coated with Silver Nanoparticles for Organ transplant patients"  
IR Registration No. 103694  
Application Date:9<sup>th</sup> February 2021
- AmirMohammad Nouri, Ali Maleki, Amin Mousavi. "Design and manufacture of horseshoes with Carbon NanoComposites"  
IR Registration No. 88786  
Application Date:31<sup>th</sup> May 2016

## Experiences

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- **Research assistant in Medical Image Analysis** Alborz , Iran  
AI specialized center of Alborz University of Medical Sciences Feb2023-Present
- **Teacher assistant for Signal processing** Qazvin , Iran  
Prof. Hamid Ghadiri, Qazvin Islamic Azad University Nov-Jan 2023
- **Research assistant in Computer Vision at UAV Robotic Team** Qazvin , Iran  
Mechatronics Research Laboratory (MRL) 2021-Present
- **intermediate level English teacher** Alborz , Iran  
Alborz MS NGO Feb-May2020

## Honors and Awards

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- **The representative team and the 1st place of the flying robot league** Tianjin, China  
MRL-UAV, RoboCup Asia Pacific invitational tournament 2023
- **1st place of International Unmanned Aerial Vehicle Robot League** Tehran, Iran  
MRL-UAV, IranOpen Competition 2023
- **1st place of International Unmanned Aerial Vehicle Robot League** Tehran, Iran  
MRL-UAV, IranOpen Competition 2022
- **Being 5% top students in the entrance exam of National Organization for Development of Exceptional Talents, also known as SAMPAD** Alborz, Iran  
Shahid Solati2 High School 2013

## Selected Projects

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- **Embolism segmentation using Pytorch and MONAI in lung CT images based on the U-Net architecture**
- **The detection and classification of breast cancer cells in bright-field microscopy images based on YOLOv7 architecture**
- **Measurement of fetal head circumference from 2D ultrasound images using YOLOv8 for the diagnosis of congenital abnormalities**
- **Testing and implementing object detection Algorithms on custom datasets for RoboCup missions**
- **fine tuning Transformer based Optical Character Recognition(TrOCR) model on a Persian text dataset called Shotor**
- **Development behaviour, localization and path-planning of autonomous flying robots in robot operating system (ROS)**
- **Object detection and localization using HSV colorspace and Opencv library**




## Skills

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- **Programming Languages:** Python, C, C++, Latex
- **Professional skills and softwares:** 3D Slicer, PSpice, Linux, ROS, Git, SQL, SLAM
- **Frameworks and libraries:** MONAI, Pytorch, Tensorflow, Opencv, sklearn, depthai
- **Soft skills:** Team work, Leadership and public speaking

## Certifications

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- **Advanced Computer vision with Tensorflow** 
- **Convolutional Neural Networks** 
- **Supervised Machine Learning** 
- **PyTorch and Monai for AI Healthcare Imaging**

## Test Scores

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- **English**      **IELTS Overall:7.5**  
Reading:8.5, Listening:8, Writing:6.5, Speaking:7

## References

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- **Dr. Mohammad Norouzi**  
Faculty of Electrical, Computer and IT Engineering, and Mechatronics  
Qazvin Azad University(Mechatronics Research Laboratory Director)  
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- **Dr. Hamid Ghadiri**  
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