

Arvin Mohammadi

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Research Interests

Robotics, Mobile Robotics, Space Robotics

Education

University of Tehran

Tehran, Iran

B.S. in Mechanical Engineering *AVG Score: 16.23/20* *GPA: 3.22/4* 2019 – 2024

Dr. Mehdi Tale Masouleh*, Dr. Mohammad Reza Hairi Yazdi*

Selected Courses

Linear Control Robotics Artificial Intelligence Reinforcement Learning

Honors

Top 0.1% of 15,000 participants in Statewide High-School Entrance Exam 2016

Top 0.5% of 164,000 participants in National University Entrance Exam 2019

Publications

Generating a General Culturing Microorganism Pattern Using a Delta Parallel Robot and Cam-in-Hand Calibration Method*

IEEE Conference Paper - ICROm

State: Published

Experimental Study on Autonomous Food Packaging with Delta Parallel Robot and Two Fingered Gripper*

IEEE Conference Paper - ICEE

State: Published

Experimental Study on The Pick-and-Place Operation of a 3-DOF Delta Robot*

IEEE Conference Paper - ICEE

State: Published

Experimental Study on Automated Pipette Filling Using Delta Parallel Robot and Randomized Rack Arrangements

Journal Paper

State: Submitted to Robotica*

Experimental Study of Trajectory Planning for Positional Accuracy in Delta Parallel Robot

Journal Paper

State: Submitted to Springer Nature*

Research Exp.

Researcher - Delta Parallel Robot

Summer 2023 – Summer 2025

(Laboratory of Human and Robot Interaction - University of Tehran*)

Motion Planning – Computer Vision – Image Processing – Robot Kinematics

Researcher - Autonomous Vehicle

Summer 2021

(PSG Team - University of Tehran*)

Computer Vision – Transfer Learning – Image Processing – Object Detection

Industrial Exp.

Intern - Delta Parallel Robot

Summer 2022

(Tavan Resan Corp.*)

Motion Planning

Projects

Robotics - Delta Robot Trajectory Planning -v3.0 GitHub repository*
Robotics - Delta Robot Trajectory Planning -v2.0 GitHub repository*
Robotics - Delta Robot Trajectory Planning -v1.0 GitHub repository*
Robotics - Autonomous Vehicle Obstacle Detection -v2.0 .. GitHub repository*
Robotics - Autonomous Vehicle Obstacle Detection -v1.0 .. GitHub repository*
Robotics - Planar Obstacle Avoidance GitHub repository*

University Robotics Project - Image Processing GitHub repository*
University Robotics Project - Arduino and MPU-6050 GitHub repository*
University Robotics Project - ROS Turtle-Sim GitHub repository*

University AI Project - XGBoost GitHub repository*
University AI Project - DQN GitHub repository*
University AI Project - Gradient Bandit GitHub repository*
University AI Project - Decision Tree GitHub repository*
University AI Project - Markov Decision Process GitHub repository*
University AI Project - GAN GitHub repository*
University AI Project - LSTM GitHub repository*
University AI Project - RNN GitHub repository*
University AI Project - YoloV3 GitHub repository*
University AI Project - EfficientNet GitHub repository*
University AI Project - InceptionV3 GitHub repository*
University AI Project - ResNet50 GitHub repository*
University AI Project - VGG16 GitHub repository*

Skills

Programming

Python (Numpy, Pandas, Open-CV, Scikit-learn, PyQt5, Open-CV, Pygame, etc)
MATLAB – Octave – C – C++ – HTML – CSS

Artificial Intelligence

Pytorch – Tensorflow – Keras

Software

SolidWorks – AutoCAD – ROS – Powermill – SAM – Arduino – Latex
WordPress – Adobe Photoshop – Adobe Illustrator – Adobe Premier

Soft Skills

Team Player – Project Management – Problem Solver – Passionate

Certificates

MATLAB Course Coursera online, Vanderbilt University*
Machine Learning Course Coursera online, Stanford University*
IEEE Conference Paper ICRoM 2023*