



Alireza Taheri Tajar

Computer Vision Engineer

M.Sc. graduated in Electrical and Control Engineering and over 4 years' startup founding experience in Intelligent Transportation systems and UAVs. Seeking a new positions related to Artificial Intelligence concepts and fabrication a product in this field.

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Work Experience

- **Technical Manager** (Sep 2017 – Current)
Sina ATI NET, Hamadan, Iran (www.atisense.ir)
 - * Electronic project
 - * Intelligent Transportation System (ITS)
 - * Internet of Things
- **Co-Founder and Technical Manager** (Jan 2015 - Sep 2017)
Atitek Faradid Pars, Hamedan, Iran (www.atitek.ir)
 - * Manufacturing of UAVs and services
 - * Photogrammetry and Aerial mapping

Education

- **Master of science** (Sep 2016– Sep 2019)
Bu-Ali Sina University, Hamedan, Iran
Faculty of Engineering
Department of Control Engineering
M.Sc. Thesis: Counting, Classifying and Detecting the Speed of Passing Vehicles from One Axis based on Image Processing
- **Bachelor of science** (Sep 2012– Sep 2016)
Bu-Ali Sina University, Hamedan, Iran
Faculty of Engineering
Department of Electrical Engineering
B.Sc. Thesis: Designing and fabrication a multirotor drone

Interests

- ★ **Artificial intelligence** (Deep learning based computer vision)
- ★ **Intelligent transportation systems** (Vehicle detection, Surveillance, Behaviour analysis)
- ★ **Internet of Things** (Wireless sensors, Smart City)
- ★ **Unmanned Aerial Vehicle** (Photogrammetry)
- ★ **Robotics**

Accomplished and Academic Projects

- Designing and fabrication **an inductive loop vehicle detector**.
- Designing and fabrication **a magnetic sensor vehicle detector**.
- Designing and fabrication **a multirotor drone for photogrammetry and mapping**.
- Designing and fabrication **line follower robot**.

JOURNAL PAPERS

- Taheri Tajar, A., Ramazani, A., & mansoorizade, m. (2019). A lightweight Tiny-YOLOv3 vehicle detection algorithm. (In progress)

Award and Honors

- Head of Student Entrepreneurship Union, Ministry of Science and Research 2019
- Head of Entrepreneurship Student Committee, Bu-Ali Sina University, Hamedan, Iran 2018
- Admitted for pursuing graduate studies at Bu-Ali Sina University in fall 2016 without entrance examinations (Only granted to 10% top students) 2016
- Member of the Executive Committee of the 14th Alumni Conference of Festival of Nations 2015
- Head of Electrical Student Committee, Bu-Ali Sina University, Hamedan, Iran 2014
- Head of Robotic Student Committee, Bu-Ali Sina University, Hamedan, Iran 2014
- Bu-Ali Sina University Award as an Exceptionally Talented student 2013
- Coordinator of 1st Conference of Industry Relationship with University, Hamedan, Iran 2013
- Member of Execution Committee of National Spaghetti Bridge Contest, Bu-Ali Sina University, Hamedan, Iran (Considered as a Green Competition) 2013
- Member of Executive committee of the 2th Bu-Ali Sina Kooshk-Kaghazi Festival
- Member of Executive committee of the 2th Bu-Ali Sina Save the Eggs Festival

Skills and Expert

- **Programming languages:**
Python
C/C++
MATLAB
Familiar with C#, HTML, CSS, PHP (Joomla and WordPress CMS)
- **Frameworks:**
Tensorflow, Keras, OpenCV, Fairly familiar with PyQT
- **Microcontroller and Developer Kit skills:**
AVR, ARM (LPC and STM)
Raspberry PI, Familiar with Arduino, NVIDIA Jetson Nano
- **Softwares:**
Microsoft Office (Word, Excel, PowerPoint), EndNote, Latex
CodeVision AVR, Keil uvision, Altium Designer
- **Simulation tools:**
MATLAB, Proteus, Fairly familiar with Hspice, Pspice
- **Graphics and video tools:**
Camtasia Studio, Edius, Adobe Photoshop

LANGUAGE SKILLS

- **English** – TOEFL exam scheduled for November 22
- **Farsi** (Persian) – Native proficiency

Hobbies

- Management books, technology and startups, Taekwondo and Chess, Gym

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- More information are available upon request