

# Curriculum Vitae

## Alireza Taheri Tajar

Graduate Student

M.Sc. graduated in Electrical and Control Engineering and over 4 years' startup funding experience in Intelligent Transportation systems and UAVs. Seeking Phd position related to Artificial Intelligence concepts and fabrication in this field.

Mail address: [taheritajar.alireza@gmail.com](mailto:taheritajar.alireza@gmail.com)

Web site: [www.taheritajar.net](http://www.taheritajar.net)

Phone number: +98-(936) 856-4342

### Education

- Master of science

**Bu-Ali Sina University, Hamedan, Iran**

(Sep 2016– Sep 2019)

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

**Supervisor:** Dr. Abbas Ramazani

**Total GPA:** 15.63 out of 20, Thesis Grade: Excellent

- Bachelor of science

**Bu-Ali Sina University, Hamedan, Iran**

(Sep 2012– Sep 2016)

Faculty of Engineering

Department of Electrical Engineering

**B.Sc. Thesis:** Designing and fabrication a multirotor drone

**Supervisor:** Dr S. Mohammad Reza Tousi

**Total GPA:** 15.97 out of 20, Thesis Grade: Excellent (**Top Student**)

### Research Interests

- ★ Artificial intelligence
- ★ Image processing
- ★ Deep learning
- ★ Intelligent transportation systems
- ★ Unmanned Aerial Vehicle

### Work Experience

- Chief Technology Officer

Sina ATI NET, Hamadan, Iran ([www.atinet.ir](http://www.atinet.ir))

Jan 2016 to  
Mar 2020

\* Electronic project

\* Intelligent Transportation System (ITS)

\* Internet of Things

- Co-Founder and Technical Manager

Atitek Faradid Pars, Hamedan, Iran ([www.atitek.ir](http://www.atitek.ir))

Jan 2015 to  
Sep 2018

\* Manufacturing of UAVs and services (Photogrammetry and Aerial mapping)

### JOURNAL PAPERS

Taheri Tajar, A., Ramazani, A., & Mansoorizadeh, M. (2020). **A lightweight Tiny-YOLOv3 vehicle detection approach**. *Journal of Real-Time Image Processing*.

Under  
revision

## ***Patents***

- I.R. 139850140003008739: '**Apparatus for counting and classifying vehicles using a combination of wireless magnetic sensors and inductive loops**'. 2020
- I.R. 139850140003008741: '**Intelligent remote control robot for cleaning hemispherical CCTV cameras**'. 2020
- I.R. 139550140003003919: '**Smart drone with the ability to spray toxins with a variable arrangement of sprays**'. 2016

## ***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
- Top Bachelor student award of Bu-Ali Sina University 2016
- Member of the Executive Committee of the 14th Alumni Conference of Festival of Nations 2016
- Admitted for pursuing graduate studies at Bu-Ali Sina University in fall 2016 without entrance examinations (Only granted to 10% top students) 2016
- Ranked as top 2.5% amongst 120 students of Electrical Engineering Faculty of Bu-Ali Sina University. 2016
- Head of Electrical Student Committee, Bu-Ali Sina University, Hamedan, Iran 2015
- Head of Robotic Student Committee, Bu-Ali Sina University, Hamedan, Iran 2014
- Bu-Ali Sina University Award as an Exceptionally Talented student 2014
- Coordinator of 1st Conference of Industry Relationship with University, Hamedan, Iran 2014
- 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 2013
- Member of Executive committee of the 2th Bu-Ali Sina Save the Eggs Festival 2013

## ***Accomplished and Academic Projects***

- RESTful Applications Development on **Face and Object Detection** with YOLOv3. 2020
- Applications Development on **Vehicle Detection** with YOLOv3. 2019
- Designing and fabrication **a magnetic sensor vehicle detector**. 2016
- Designing and fabrication **an inductive loop vehicle detector**. 2015
- Designing and fabrication **a multirotor drone for photogrammetry and mapping**. 2015
- Designing and fabrication **Mine Detector robot**. 2014
- Designing and fabrication **line follower robot**. 2013

## ***LANGUAGE SKILLS***

- **English** – TOEFL exam scheduled for November 29, 2020
- **Farsi (Persian)** – Native proficiency

## ***Teaching Experiences***

- **Teaching:** Computer basics (Madani High School ) (Sep 2013 – Jan 2015)

## ***Skills and Expert***

- **Programming languages:**  
Python  
C/C++  
MATLAB  
C#, HTML, CSS
- **Frameworks:**  
Tensorflow, Keras, OpenCV, Django
- **Microcontroller and Developer Kit skills:**  
AVR, ARM (LPC and STM)  
Raspberry PI, Arduino  
NVIDIA Jetson Nano
- **Softwares:**  
Linux  
Docker  
Git  
Microsoft Office, EndNote, Latex  
CodeVision AVR, Keil uvision, Altium Designer

---

## ***Hobbies***

- Persian poetry, Management books, technology and startups, Taekwondo

---

## ***Academic References***

- |   |   |
|---|---|
| • <b>Dr. Abbas Ramazani</b><br>Bu-Ali Sina University         | <b>Email :</b><br><a href="mailto:a.ramezani@basu.ac.ir">a.ramezani@basu.ac.ir</a><br><b>Home page :</b><br><a href="http://basu.ac.ir/en/~a.ramazani">http://basu.ac.ir/en/~a.ramazani</a> |
| • <b>Dr. Muharram Mansoorizadeh</b><br>Bu-Ali Sina University | <b>Email :</b><br><a href="mailto:mansoorm@basu.ac.ir">mansoorm@basu.ac.ir</a><br><b>Home page :</b><br><a href="http://basu.ac.ir/en/~mansoorm">http://basu.ac.ir/en/~mansoorm</a>         |
| • <b>Dr. Hossein Torabzadeh</b><br>Bu-Ali Sina University     | <b>Email :</b><br><a href="mailto:torabzadeh@basu.ac.ir">torabzadeh@basu.ac.ir</a><br><b>Home page :</b><br><a href="http://basu.ac.ir/en/~torabzadeh">http://basu.ac.ir/en/~torabzadeh</a> |

- 
- More references are available upon request