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**

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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.atisense.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)   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

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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	
	• 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

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Academic References

- **Dr. Abbas Ramazani**
  Bu-Ali Sina University

  Email :
  a.ramezani@basu.ac.ir
  Home page :
  https://profs.basu.ac.ir/ramezani/index.php?L=en&pc

- **Dr Muharram Mansoorizadeh**
  Bu-Ali Sina University

  Email :
  mansoorm@basu.ac.ir
  Home page :
  https://profs.basu.ac.ir/mansourizadeh/index.php?L=en&pc

- **Dr. Hossein Torabzadeh**
  Bu-Ali Sina University

  Email :
  torabzadeh@basu.ac.ir
  Home page :
  https://profs.basu.ac.ir/torabzadeh/index.php?L=en&pc

- More references are available upon request