

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.

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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

Patents

- I.R. 139550140003003919: 'Smart drone with the ability to spray toxins with a variable arrangement of sprays', June 23, 2016
- I.R. 139850140003008739: 'Apparatus for counting and classifying vehicle using a combination of wireless magnetic sensors and inductive loops', September 27,2020
- I.R. 139850140003008741: 'Intelligent remote control robot for cleaning hemispherical CCTV cameras', September 27,2020

Award and Honors

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| • 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

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|---|--|
| <ul style="list-style-type: none">• Dr. Abbas Ramazani
Bu-Ali Sina University | <p>Email :
a.ramezani@basu.ac.ir</p> <p>Home page :
https://profs.basu.ac.ir/ramezani/index.php?L=en&pc</p> |
| <ul style="list-style-type: none">• Dr Muharram Mansoorizadeh
Bu-Ali Sina University | <p>Email :
mansoorm@basu.ac.ir</p> <p>Home page :
https://profs.basu.ac.ir/mansourizadeh/index.php?L=en&pc</p> |
| <ul style="list-style-type: none">• Dr. Hossein Torabzadeh
Bu-Ali Sina University | <p>Email :
torabzadeh@basu.ac.ir</p> <p>Home page :
https://profs.basu.ac.ir/torabzadeh/index.php?L=en&pc</p> |

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- More references are available upon request