

# Amir Shahbandegan

Electrical Engineering Graduate

📍 Tehran, Iran  
☎ (+98) 9213017164  
✉ [am.shahbandegan@gmail.com](mailto:am.shahbandegan@gmail.com)  
🌐 [shahbandegan.me](http://shahbandegan.me)  
in [linkedin.com/in/amir-shahbandegan](https://linkedin.com/in/amir-shahbandegan)

## Education

### Bachelor's Degree, Electrical Engineering

Sep. 2016 - Sep. 2020

[Shahid Beheshti University](#)

GPA: 16.57/20 (**3.42/4**), Last two years of studying GPA: 17.26/20 (**3.66/4**)

Ranked Top 10% among B.Sc. students of electrical engineering, 2020

Notable Courses:

- Computer programming: 20/20
- Logic Circuits and Digital Systems: 20/20
- Computer Architecture and Microprocessors: 20/20
- Artificial Intelligence and Biological Calculations: 19.5/20
- Linear Algebra: 18.2/20

### High School Diploma

Sep. 2012 - Sep. 2016

[Allame Helli Highschool of Tehran](#)

National Organization for Development of Exceptional Talents (Sampad)

GPA: **19.80/20**

## Publications

- S. Shahbandegan, A. Shahbandegan, H. Shahhoseini, "An improved binary butterfly optimizer for the multidimensional knapsack problem" (under review)

## Teaching Experience

### Course Instructor

Jan. 2020 - Jul. 2020

[Quera](#)

- Developed the course outline and contents
- Consulted the course students

### C++ Programming Instructor

Jun. 2018 - Sep. 2018

[Allame Helli Highschool of Tehran](#)

- Taught C++ programming in group classes of between 25-30 junior students

### Teaching Assistant

Jan. 2017 - Jan. 2020

[Shahid Beheshti University](#)

- Computer Architecture and Microprocessors course by Dr. Asharioun
- Computer Programming course by Dr. Asharioun
- Logic Circuits and Digital Systems course by Dr. Mahdiani

## Work experience

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### Co-Founder and CTO

Mar. 2018 - Present

#### Asan Sports

- Asan Sports is a leading startup for booking sports fields online in Iran with more than 10000 customers
- Developed the backend software using PHP and Laravel
- Managed a team of 3 developers

### Software Engineer

Aug. 2018 - Sep. 2019

#### Viranegar Technologies

- Worked on a realtime AR makeup mobile app
- Used dlib and OpenCV for face recognition and image processing

## Projects

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Intrusion detection system using multi-objective grey wolf optimizer	2020
Navigation system using deep Q-learning and CNN	2020
Solving OpenAI LunarLander Environment using deep Q-learning	2020
Trigger Word Detection	2019
Car detection with YOLO	2019
Face Recognition Using Triplet Loss Function	2019
Neural Machine Translation with Attention	2019
Emoji Recommender	2019
Art generation with Neural Style Transfer	2019
Iran ministry of foreign affairs booking web application	2018
Smart Air Conditioner Controller	2018
Smart room hub	2016
FlyDroid: A quadcopter autopilot based on Android and Arduino	2014

## Research Interests

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- Artificial Intelligence for autonomous vehicles
- Deep Reinforcement Learning
- Evolutionary Algorithms

## Honors and Awards

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**1st place in Digikala Academy AI challenge**

Nov. 2019

[Digikala](#)

Natural language processing, Sentiment analysis and comment verification task

**Deep reinforcement learning specialization certificate**

Mar. 2020

[Coursera](#)

**Deep learning specialization certificate**

Aug. 2019

[Coursera](#)

**Javacup certified java developer**

Oct. 2016

[Javacup](#)

**5th place in Snappfood PHP programming competition**

Oct. 2019

[Snappfood](#)

## Languages

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**Persian:** Native

**English:** Full professional proficiency

IELTS Academic scores:

- Overall: 8
- Listening: 8.5
- Reading: 9
- Writing: 7
- Speaking: 7

## Skills

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Python / PHP / C++ / Java



Git and Team Programming



Matlab and Simulink



Machine Learning and Deep Learning



Data Structures and Algorithms



## Volunteer Work and Extra-Curricular Activities

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**Technical Director of Mechatronics Association**

Sep. 2018 - Sep. 2019

[Shahid Beheshti University](#)

**Event Manager Assistant**

Jan. 2017 - Mar. 2017

[Jahesh Accelerator](#)

## References

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- **Dr. H. Torkaman**, Associate Professor of Electrical Engineering, Shahid Beheshti University  
(+98) 21-73932525 - [h\\_torkaman@sbu.ac.ir](mailto:h_torkaman@sbu.ac.ir)
- **Dr. H. Asharioun**, Assistant Professor of Electrical Engineering, Shahid Beheshti University  
(+98) 21-73933028 - [asharioun@sbu.ac.ir](mailto:asharioun@sbu.ac.ir)
- **Dr. A. Arasteh**, CEO, Viranegar Technologies  
(+98) 21-88536748 - [a.arasteh@vnegar.com](mailto:a.arasteh@vnegar.com)
- **Dr. H. Mahdiani**, Assistant Professor of Computer Science and Engineering, Shahid Beheshti University  
(+98) 21-29904144 - [mahdiani@sbu.ac.ir](mailto:mahdiani@sbu.ac.ir)