Seyed Soroush Hosseini Naghavi

Bachelors of Computer Engineering

Science and Research branch of IAU | Department of Computer and Electrical Engineering

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Research Interests

- Machine Learning
- Deep Learning Optimization and Efficiency
- Image Processing
- Neural/Brain Imaging and Neuroscience
- Signal Processing

Experience

June 2017 - Present

Technical Committee/Member, National Robocup Committee of Iran

- Participation in International Robocup Competitions 2017 Nagoya, Japan and 2018 Montreal,
 Canada as a member of the IRNC and Kavosh Robotics Team
- Event management in IranOpen Robocup 2022 and IranOpen Robocup 2023
- Technical committee/Referee, Self-Driving cars League, IranOpen Robocup 2022 and IranOpen Robocup 2023
- Organizing Committee, Practical Leagues sections, IranOpen Robocup 2020 and Asia-Pacific Robocup 2018

February 2021 - May 2021

🏢 IT Specialist/Graphic Designer - Ariaz Balan Servat

- Maintain/manage office devices and computers
- Content creation for various social medias, Posters and Flyers

May 2019 - December 2021

星 Shareholder/Teacher/Graphic Designer - Kavosh Creativity House

- Teaching C Programming language, Electronics and soldering at various schools/high-schools
- Designed Flyers/Posters/Contents etc.

September 2016 - March 2019

🤖 Team member/Programmer, Kavosh Robotics team

- Developing the Software/Hardware for an autonomous robot
- Implementing different navigation algorithms
- Various methods to rescue victims using the robot

Education

Bachelor of Science • 2019 - 2023

Science and Research branch IAU, Tehran

• Computer Engineering

o Score: 16.54/20 via 144 Units

Diploma of Science • 2019 - 2023

Danesh High-school, Tehran

Mathematics and Physics

Awards

- Iran's National Elites Foundation (INEF) Fellowship [2017-2023]: Recognized as scientific elite
- 1st Place in international robotics competition, RoboCup 2018, Montreal, Canada Robocup Federation, IEEE
- 1st Place in international robotics competition, RoboCup 2017, Nagoya, Japan Robocup Federation, IEEE
- 1st Place in the main competition at national robotics competition, RoboCup Asia-Pacific 2018, Kish Island, Iran IRNC
- 1st Place in the main competition at national robotics competition, RoboCup IranOpen 2017,
 Tehran, Iran QIAU, IRNC
- 1st Place in the main competition at national robotics competition, RoboCup IranOpen 2018,
 Tehran, Iran QIAU, IRNC
- 1st Place at national robotics competition, AUTCup 2016, Transposter B League AUT
- 1st Place in selection exam at World Mathematics Team Championship 2016 WMTC Iran

Courses/Workshops

- Cs231n, Efficient methods and Hardware for Deep Learning Stanford, Song Han
- RaspberryPi Professional Workshop SRBIAU, Hamidreza Givehchi
- Pytorch and Torchvision Implementation ZerotoMastery.io, Daniel Bourke
- Tensorflow Implementation ZerotoMastery.io, Daniel Bourke

Computer Skills

- Python
 - Tensorflow
 - Pytorch
 - SKLearn
 - Pandas, MPLib, Numpy
- C/C++
- HTML/CSS3
- JavaScript

- IDEs/Tools
 - VSCode
 - PyCharm
 - MATLAB
 - Altium Designer
 - CodeVision
 - o Proteus Simulator
 - Adobe PS/AI/PR/AE

Language Skills

Persian Native

• English Professional

Arabic Basic

Teaching Experience

Teaching Assistant • January 2023 - June 2023

- Advanced Topics 01 Data Mining
 - o Instructor: Farsad Zamani Boroujeni Science and Research Branch IAU
 - Design and Implementation of Neural Networks
 - Theory and basics of linear algebra and mathematics in Neural Networks

Teaching Assistant • January 2023 - June 2023

- Digital Systems Design
 - Instructor: Mahdi Bagherizadeh Science and Research Branch IAU
 - Designing various logical circuits with different factors
 - Theory and basics of FPGA, VLSI, PLD/CPLD

Teaching Assistant • September 2022 - December 2022

- Python/Tensorflow Workshop
 - Instructor: Hamidreza Bolhasani Science and Research branch IAU
 - Machine Learning/Deep Learning Theory
 - Making ML models with SKLearn/Tensorflow
 - Making Neural Networks and Deep Learning models with Tensorflow

Teaching Assistant • July 2022 - August 2022

- Microprocessors Lab
 - Instructor: Somayeh Khoroush Science and Research branch IAU
 - Simulating AVR microcontrollers with Proteus
 - Programming various samples with AVR microcontrollers and C language

Research Experience

Research Assistant • Summer 2022

- Handwriting Recognition in the medical industry (Prescription Recognition)
 - Supervisors: Azadeh Zamanifar, Ladan Pirouz, Mahdi Saeidi
 - Model study and review; Easter 2.0, Improving Convolutional models for Handwritten text recognition • Kartik Chaudhary
 - Implementing a model in PyTorch framework; Easter 2.0