

Saeed Kazemi

Curriculum Vitæ

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Research Interests And Activities

- Machine Learning
- Computer Vision
- Image Processing
- Signal Processing

Skills

Advanced Python, Pandas, TensorFlow, Scikit-learn, Matlab, Altium, Office, C/C++, OpenCV, git
Intermediate Keil, ISE, VHDL, L^AT_EX, Proteus, Adobe Photoshop, Linux
Basic ORCAD, Labview, Verilog, IAR, Modelsim, Vivado, Vivado-HLS, PHP, Java Script

Educational Background

since 2020 **Master of Science in Electronics Engineering**, University of New Brunswick, Fredericton, Canada, GPA – A+.

Title of Thesis: *Exploring Performance Limits for Pressure-Based Gait Biometrics*
Supervisor: Dr. Erik Scheme

2011–2014 **Master of Science in Communication**, Isfahan University of Technology, Isfahan, Iran, GPA – A.

Title of Thesis: *An Efficient Algorithm for Still and Moving Object Registration in Moving Video Camera Sequences*
Supervisor: Dr. Mohamad Reza Ahmadzadeh

2008–2010 **Bachelor of Science in Electronics Engineering Technology**, Shahid Rajaei Teacher Training University, Tehran, Iran.

Title of Thesis: *Neural Network implementation by NEFPROX in order to approximate nonlinear function to use in medical applications*
Supervisor: Dr. Behzad Boghrati

2006–2008 **Associate degree in Electronics Engineering**, Mohajer Technical and Vocational College of Isfahan, Isfahan, Iran.

Title of Thesis: *Controlling of Step Motor with the computer*

Professional Training

2020 **Machine Learning** online course by Standford University on coursera.org, Instructor: professor Andrew Ng, Completed in July 2020.

- 2020 **Deep Learning** a 5-course specialization by Deeplearning.ai on coursera.org, Instructor: professor Andrew Ng, Specialization Certificate earned on August 13, 2020.// The 5-course specialization includes:
- Neural Networks and Deep Learning,
 - Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization,
 - Structuring Machine Learning Projects,
 - Convolutional Neural Networks,
 - Sequence Models.

Publications

- 2019 **Saeed Kazemi**, Angkoon Phinyomark and Erik Scheme, FOOT PRESSURE-BASED BIOMETRICS: ONE-CLASS VERSUS BINARY-CLASS CLASSIFIERS, Submitted.
- 2018 **Saeed Kazemi** and M. R. Ahmadzadeh, DPML-RISK: AN EFFICIENT ALGORITHM FOR IMAGE REGISTRATION, International Journal of Engineering (IJE), In Press.
- 2016 **Saeed Kazemi** and M. R. Ahmadzadeh, PROVIDE EFFICIENT ALGORITHMS FOR MATCHING IMAGES BASE ON BRISK AND DIRECTIONAL PATTERN, journal of Iranian society of machine vision and image processing (in Farsi).
- 2015 **Saeed Kazemi** and M. R. Ahmadzadeh, PROVIDE EFFICIENT ALGORITHMS FOR MATCHING IMAGES, International Conference On Pattern Recognition and Image Analysis, Selected paper (in Farsi)

Selected Projects

- 2017 Design and Implementation of an Industrial Universal Driver based on Xilinx SPARTAN-6 chip for *Complex Research of Hosseinpour*.
- 2016 Design and Implementation of an Industrial board in order to log data from BLDC motor based on ARM processor STM for *University Complex of Undersea Science and Technology, Malek Ashtar University of Technology* .
- 2015 Implementation of transmitter and receiver with Texas Instrument chip called CC1101 for *Complex Research of Hosseinpour*.
- 2014–2015 Doing research on Real-time target tracking algorithm based on machine vision for *Complex Research of Etebari*, located inside Isfahan University of Technology.
- 2013 Researching on fuzzy neural network with architecture NEFCON as the project of "Artificial Neural network" course under supervision of *Assistant Prof. Mohamad Reza Ahmadzadeh*.
- 2013 Doing research about Optical Character Recognition (OCR) for 3 characters of Persian language as the project of "Statistical Pattern Recognition" course under supervision of *Assistant Prof. Mohamad Reza Ahmadzadeh*.
- 2012 Researching on image compression using wavelet as the project of "Advanced Digital Signal Processing" course under supervision of *Associate Prof. Saied Sadri*.
- 2012 Googling on Steganography as the project of "Digital Image Processing" course under supervision of *Assistant Prof. Behzad Nazari*.

Work Experience

Vocational

- 2018-2020 **IT manager and Technical Lead**, *MOEIN RAH GOSTAR KHORASAN COMPANY*, Mashhad, Iran.
- IT Engineer
 - Organisation Systems and Networks
- 2017-2020 **Co-Founder and Technical Lead**, *PARTBOX COMPANY*, Isfahan, Iran.
- Developing Code
- 2017-2018 **Electronic Engineer**, *BON CHEMICAL ADHESIVE INDUSTRY AND RESIN CORPORATION*, Isfahan, Iran.
- Working with many sensors and actuators
 - IT Engineer
- 2015-2017 **Senior Electronic Engineer**, *SALMANIAN FARS CORPORATION*, Imam Khomeini highway, Isfahan, Iran.
- Developed VHDL code
 - Design and Verify PCB
 - Lead a team of 3 developers
 - Research and Development
- 2008 **Internship**, *ESFAHAN'S MOBARAKEH STEEL COMPANY*, Isfahan, Iran.
- Teaching
- 2014 **Lecturer**, *MOHAJER TECHNICAL AND VOCATIONAL COLLEGE OF ISFAHAN*, Signals and Systems, undergraduate courses for engineering students.

Awards And Honors

- 2011 Ranked among the top 5% of the candidates in the Iran's Nationwide University Entrance Exam for M.Sc. degree. (among 35,000 participants)
- 2008 Ranked 91st (in the top 1%) among more than 10000 participants in the Iran's Nationwide University Entrance Exam for B.Sc. degree.
- 2008 Ranked 2nd among A.S. students of Electronics at Applied Science Competitions, Mohajer Technical and Vocational College of Isfahan
- 2006 Ranked 77th (in the top 1%) among more than 10000 participants in the Iran's Nationwide University Entrance Exam for A.S. degree.
- 2005 Selected student at Enghelab Vocational and Technical High School, in order to participate in Regional Olympiad.

Language And English Proficiency

Persian	Mother tongue	
English	IELTS Academic Module: 6.0 (Overall Score)	10 February 2018
English	Duolingo English Test: 115 out of 160	28 August 2020

Hobbies and Interests

- Swimming
- Reading novels & scientific magazines
- Bike Riding
- Playing Tombak (A Kind Of Musical Instrument)

References

References Available Upon Request