

# Ebrahim SORUSH

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## EDUCATION

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- 2013 - 2016 M.Sc. in DIGITAL ELECTRONICS  
**Amirkabir University of Technology (AUT) - (Tehran Polytechnic)**  
Thesis: "Image segmentation for Holistic scene understanding" (19.75/20) | Supervisor: [Assoc. Prof. Abolghasem.A RAIE](#)  
GPA: 16.88/20
- 2009 - 2013 B.Sc. in ELECTRICAL ENGINEERING  
**Amirkabir University of Technology (AUT) - (Tehran Polytechnic)**  
Thesis: "Automatic Chord detection in guitar musics" (19.5/20) | Supervisor: [Assoc. Prof. Mohammad AHADI](#)  
GPA: 16.36/20

## RESEARCH INTERESTS

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Theoretical Machine Learning, Machine learning in Medical Applications, Computer Vision, Deep Learning, Signal Processing.

## PUBLICATIONS AND WORKSHOPS

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- 2016 "A UNIFIED MODEL FOR USING THE HIGHER-ORDER INFORMATION IN SEMANTIC SEGMENTATION TASKS", **E. Sorush**, A.A Raie, *3rd National Conference on Recent Innovation on Electrical and Computer Engineering (ICEEC)*, 2016
- 2015 "INTRODUCTION TO OPENCV, WORKSHOP", A. Mirzaei, **E. Sorush**, *9th Iranian Conference on Machine Vision and Image Processing*, IEEE, 2015.
- 2015 "NEAR REAL-TIME VEHICLE DETECTION AND TRACKING IN HIGHWAYS", **E. Sorush**, A. Mirzaei, Sh. kamkar, *The 15th International Conference on Traffic and Transportation Engineering (ICTTE)*, 2015.

## HONORS

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- FALL 2015 Identified as the best team in Amirkabir Artificial Intelligence Competition 2015
- FALL 2013 *Straight* admission at the Department of Electrical Engineering as a graduate student
- FALL 2012 Recognized as an *exceptionally talented* student at AUT in digital electronics major
- FALL 2009 Identified as an *elite student* by [National Organization for Educational Testing \(Sanjesh\)](#) due to excellent performance in nationwide college entrance exam.  
Ranked 705 among 273,668 applicants.

## TEACHING EXPERIENCE

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- FALL 2015 Teaching Assistant, AUT - Undergraduate Course (2 years)
- FALL 2014 *Computer Architecture*, ELECTRICAL ENGINEERING DEPARTMENT - Instructor: Assoc. Prof. Raie
- FALL 2014 Lab Assistant, AUT - Undergraduate Course  
*Logic Circuits*, ELECTRICAL ENGINEERING DEPARTMENT - Instructor: Assoc. Prof. Rezaie

## WORK EXPERIENCE

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SEPT. 2014 - <i>Curr.</i>	Senior Developer and Computer Vision Expert at <a href="#">FARAADID</a> , Tehran Infrastructure and core engine developer, which facilitates development of machine vision solutions in ITS, Security and Surveillance industry.
FEB. 2014 - SEPT. 2014	Software Engineer at <a href="#">SEECO</a> , Tehran <i>Automatic glass insertion with ABB robot for TIBA automobiles</i> We calibrated and trained computer vision algorithms for robot glass insertion .

## TECHNICAL SKILLS

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PROGRAMMING	Proficient: C/C++, MATLAB, PYTHON Intermediate: <del>LaTeX</del> , JAVA, OCTAVE, LINUX SHELL SCRIPT (BASH), ASSEMBLY (x86), C# Basic: MYSQL, SQL, HTML, CSS, JS Libraries: QT, OPENCV, CAFFE, TENSORFLOW, SCIPY
SOFTWARE	IDEs: QT CREATOR, ECLIPSE, NETBEANS, MS VISUAL STUDIO Tools: VIM, GIT, CMAKE, SVN, REDMINE, TRELLO. Platforms: LINUX (x86/ARM), WINDOWS

## LANGUAGES

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PERSIAN: Native	ENGLISH: Proficient	TOEFL SCORE: 92 (R: 22, L: 27, S: 22, W:21) GRE SCORE: 310 (V: 145, Q: 162, W: 3)
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