

Amir Hossein NAZEM DELIGANI

PERSONAL DATA

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EDUCATION

B.Sc.	Sharif University of Technology, Tehran, Iran Bachelor of Science in ELECTRICAL ENGINEERING DIGITAL SYSTEMS Branch Thesis: "3D Reconstruction Using Smartphones" Supervisor: Prof. Hamid Karbalayi Aghajan Gpa: 3.49/ 4.00 (16.58/20)	2012-2017
DIPLOMA	Shahid Ejei High School, Isfahan, Iran Diploma in PHYSICS AND MATHEMATICS DISCIPLINE, Affiliated with the National Organization for the Development of Exceptional Talents (NODET). Gpa: 19.51/20	2008-2012

HONORS AND AWARDS

- Awarded **Bronze Medal**, in 24th Iran National Physics Olympiad, Young Scholars Club (YSC), September 2011
- **Ranked 123th**, in the Nationwide University Entrance Exam (Physics and Mathematics) among more than 270,000 participants, June 2012
- **Ranked 12th** in the Azad University Entrance Exam, June 2012.
- **2nd Place**, in Sharif FPGA Design Contest, January 2016
- Member of **National Organization for the Development of Exceptional Talents (NODET)**, 2005-2012
- Member of **National Elite Foundation**, 2013-2015

RESEARCH INTEREST

- Machine Learning
- Deep Learning
- Image Processing
- Computer Vision
- Pattern Recognition

RESEARCH EXPERIENCES

B.SC. THESIS	3D Reconstruction Using Smartphones September 2015-June 2016 Sharif University of Technology, <i>Tehran, Iran</i>
GROUP RESEARCH	Blockchain, Bitcoin and Ethereum Fundamentals Summer 2017 Sharif University of Technology, <i>Tehran, Iran</i>
GROUP RESEARCH PROJECT	Smart Contract Website (Back-End and Front-End) on Etheruem Network Summer 2017 Sharif University of Technology, <i>Tehran, Iran</i>
GROUP RESEARCH PROJECT	Real-Time Automatic Liscence PLate Recognition System Fall 2017-Current Fanap ICT Co., <i>Tehran, Iran</i>

TEACHING EXPERIENCES

ONLINE TEACHING	Front End Web Development on maktabkhooneh.org Winter 2017 Maktabkhooneh , <i>Tehran, Iran</i>
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WORK EXPERIENCE

<i>Current</i> NOVEMBER 2016	Researcher and Software Developer, Fanap ICT Co., <i>Tehran, Iran</i> <ul style="list-style-type: none">• Member of INTELLIGENT TRANSPORTATILAON SYSTEM(ITS) AND SMART CITY project.• Analyzed and designed commercial road video surveillance system installed on more than 300 locations across the country.
NOVEMBER 2016 MARCH 2016	Researcher and Software Developer, Roya Creation Village Company, <i>Tehran, Iran</i> <ul style="list-style-type: none">• Member of AUGMENTED REALITY RESEARCH AND DEVELOPMENT GROUP• Designed and implemented several Augmented Reality (AR) windows and android applications
SEPTEMBER 2015 JULY 2015	Software Intern, Fanap ICT Co., <i>Tehran, Iran</i> <ul style="list-style-type: none">• Working on an AUTOMATIC LICENSE PLATE RECOGNITION SOTWARE and an AUTOMATIC CAPTCHA READING SOFTWARE

PUBLICATION

- Elnaz Yousefi, Amir Hossein Nazem, Jafar Jafari Amirbandi, Mohsen Karimzadeh Kiskani
Real-Time Scale-Invariant License Plate Detection Using Cascade Classifiers
(To be submitted)

SELECTED PROJECTS

FUNDAMENTAL OF PROGRAMMING
FINAL PROJECT

Graphical "GO" Game
Fall 2012
Sharif University of Technology, *Tehran, Iran*

LOGIC CIRCUITS AND LAB
FINAL PROJECT

Simple Banking System with CPLD and Verilog
Fall 2013
Prof. Tabandeh,
Sharif University of Technology, *Tehran, Iran*

COMPUTER AND MICROPROCESSOR
ARCHITECTURE FINAL PROJECT

IC Tester for 74-series ICs
Spring 2014
Prof. Tabandeh,
Sharif University of Technology, *Tehran, Iran*

SIGNALS AND SYSTEMS
FINAL PROJECT

Simple Optical Character Recognition software
Spring 2014
Prof. Karbalayi Aghajan,
Sharif University of Technology, *Tehran, Iran*

DIGITAL CIRCUITS AND PULSE
FINAL GROUP PROJECT

Analog Function Generator
Spring 2015
Prof. Bagheri,
Sharif University of Technology, *Tehran, Iran*

MICROPROCESSOR LAB
FINAL GROUP PROJECT

Music Detector with FPGA
Fall 2015
Prof. Hashemi,
Sharif University of Technology, *Tehran, Iran*

PERIPHERAL CIRCUITRY
FINAL PROJECT

3D Game Using OpenGL and C++
Spring 2016
Prof. Movahedin,
Sharif University of Technology, *Tehran, Iran*

GROUP PROJECT

Advanced Augmented Reality Android Application using OpenCV and OpenGL
Summer 2016
Roya Creation Village Company, *Tehran, Iran*

GROUP PROJECT

Advanced Augmented Reality Android Application using Vuforia Framework and OpenGL
Summer 2016
Roya Creation Village Company, *Tehran, Iran*

LANGUAGE PROFICIENCY

PERSIAN: Native proficiency
ENGLISH: Professional working proficiency

SKILLS

PROGRAMMING C/C++, Java, Python, OpenCV, OpenGL, PThread, VerilogHDL, Android development with Java

WEB TECHNOLOGIES HTML, CSS, Javascript, JQuery, Bootstrap

TOOLS Matlab, AlteraQuartus, Photoshop, Git, \LaTeX , AutoCAD, PSpice

INTERESTS AND ACTIVITIES

Photography, Graphics Design, Open-Source Programming

SELECTED COURSES

- Principles of Electrical Engineering and laboratory (A⁺)
- Fundamental of Programming (A⁺)
- Electromagnetics (A)
- Logic circuits and Lab (A)
- Energy Conversion 1 and Lab (A⁺)
- Linear Control Systems and Lab (A⁺)
- Computer and Microprocessor Architecture (A)
- Microprocessor Lab (A⁺)
- Numerical Analysis (A⁺)
- Signals and Systems (Taken)
- Advanced Programming (Taken)
- Communication Systems (Taken)
- Pulse and Digital Circuits (Taken)
- Data Communication Networks (Taken)
- FPGA/ASIC Design (Taken)
- Engineering Probability and Statistics (Taken)
- Algorithm Design (Audit)
- Stochastic Processes (Audit)
- Speech Processing (Audit)
- Artificial Intelligence (Audit)
- **Machine Learning**, Provided by Stanford University through Coursera Inc (Audit)
- **Bitcoin and Cryptocurrency Technologies**, Provided by Princeton University through Coursera Inc (Audit)