

Niloufar Delfan

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RESEARCH INTERESTS

- Deep Learning
- Machine Learning
- Image processing
- Computer Vision
- Robotics
- Embedded systems

EDUCATION

M.SC. IN ARTIFICIAL INTELLIGENCE AND ROBOTICS | 2018-CURRENT | KHAJE NASIR TOOSI UNIVERSITY OF TECHNOLOGY

B.S.C. IN COMPUTER ENGINEERING | 2013-2018 | ISFAHAN UNIVERSITY OF TECHNOLOGY

DIPLOMA IN PHYSICS AND MATHEMATICS | 2013 | NATIONAL ORGANIZATION FOR DEVELOPMENT OF EXCEPTIONAL TALENTS (NODET)

Skills & Abilities

Programming:

Python, MATLAB, C/C++, x86 Assembly, MIPS Assembly, Verilog, VHDL;

Operating Systems and Applications:

Windows, Unix/Linux(Cent os, ubuntu), Anaconda Navigator, Visual studio code, Visual studio, matlab, ModelSim, ISim, codevision, vivado, Xilinx SDK, ISE, atmel studio, altium designer, keil microvision, Vmware workstation, QT creator;

Programmable Boards:

ARDUINO, RASPBERRY PI, FPGA(SPARTAN & ZYNQ), ARM(A & M SERIES), PIC

PROJECTS:

A GAS DETECTOR ROBOT (FALL 2015) UNDER THE SUPERVISION OF PROFESSOR [MEHRAN SAFAYANI](#)

EDGE DETECTION ON ZYNQ (WINTER 2016) UNDER THE SUPERVISION OF PROFESSOR [EHSAN YAZDIAN](#)

VOICE RECOGNITION SYSTEM BASED ON LPC1768 (FALL 2016) UNDER THE SUPERVISION OF PROFESSOR [MEHRAN SAFAYANI](#)

IMPLEMENT AND DESIGN OF A 6DOF ROBOT ARM (FALL 2016) UNDER THE SUPERVISION OF PROFESSOR [MAZIAR PALHANG](#)

DENOISE BRIAN MRI IMAGES USING NEURAL NETWORKS (FALL 2017) UNDER THE SUPERVISION OF PROFESSOR [SHADROKH SAMAVI](#)

IMAGE RETARGETING USING DEEP LEARNING (FALL 2017) UNDER THE SUPERVISION OF PROFESSOR [SHADROKH SAMAVI](#)

I ALSO HAVE MY M.SC THESIS IN PROGRESS UNDER THE SUPERVISION OF PROFESSOR [HAMID ABRISHAMI MOGHADDAM](#)

LANGUAGES:

PERSIAN/FARSI (NATIVE), ENGLISH (FLUENT), FRENCH (FAMILIAR).

TEACHING EXPERIENCE

BASIC PROGRAMMING C | ISFAHAN UNIVERSITY OF TECHNOLOGY | FALL 2014

DATA STRUCTURES | ISFAHAN UNIVERSITY OF TECHNOLOGY | WINTER 2015

DIGITAL DESIGN | ISFAHAN UNIVERSITY OF TECHNOLOGY | WINTER 2015

DATA STRUCTURES | ISFAHAN UNIVERSITY OF TECHNOLOGY | WINTER 2016

COMPUTER ARCHITECTURE | ISFAHAN UNIVERSITY OF TECHNOLOGY | WINTER 2016

COMPUTER ARCHITECTURE | ISFAHAN UNIVERSITY OF TECHNOLOGY | FALL 2016

COMPUTER ARCHITECTURE LABORATORY | ISFAHAN UNIVERSITY OF TECHNOLOGY | FALL 2016

COMPUTER ARCHITECTURE | ISFAHAN UNIVERSITY OF TECHNOLOGY | WINTER 2017

DIGITAL SYSTEM DESIGN 2 LABORATORY | ISFAHAN UNIVERSITY OF TECHNOLOGY | WINTER 2017

ROBOTIC AND AUTOMATION | ISFAHAN UNIVERSITY OF TECHNOLOGY | FALL 2017

MICROPROCESSORS LABORATORY | ISFAHAN UNIVERSITY OF TECHNOLOGY | FALL 2017

MACHINE LEARNING | KHAJE NASIR TOOSI UNIVERSITY OF TECHNOLOGY | FALL 2019

MACHINE VISION | KHAJE NASIR TOOSI UNIVERSITY OF TECHNOLOGY | FALL 2019

RELATED COURSES

Deep Learning

Neural Networks

Machine Learning

Machine Vision

Image Processing

Probabilistic Graphical Models

Robotic and automation

Multimedia

Embedded systems

Microprocessors

TRAINEE EXPERIENCE

Working at first startup company in the Middle East, called HPDS, designing and fabricating midrange and high-end data storage systems under the supervision of Professor [Hossein Asadi](#) (summer 2015)

Working at [Advanced Robotics and Intelligent Systems](#) laboratory as assistant in A Robot System Maneuvering on Domes for Stable Maintenance, Inspection and Cleaning project under the supervision of Professor [HADI_MORADI](#) (summer 2016)

Working at [The Human & Robot Interaction Laboratory](#), known as TaarLab as research assistant in a humanoid robot called vira project under the supervision of Professor [Mehdi Tale Masouleh](#) (summer 2017)