Amirhesam Salimnia Summer Internship

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• No. 22, Block B2, Bagh Behesht Residential Complex, Baq St, Saadat Abad, Tehran, Iran.

EDUCATION

• Bachelor of Science in Electrical Engineering , University of Tehran, Tehran GPA (18.77/20)

Sept 2016 - Present

Minor in Computer Engineering, University of Tehran, Tehran GPA (18.23/20)

• Diploma, Mathematics, AE HighSchool, Tehran GPA (19.53/20)

Sep 2012 – Jun 2016

THONORS AND AWARDS

• Silver Medal in Iranian National Physics Olympiad

2015

• Member of Iran's National Elites Foundation

2015

ullet Ranked $oldsymbol{2}^{nd}$ among about 120 undergraduate students of Electrical Engineering, University of Tehran

Present

Research Experience and Notable Projets

Research Assistant Present

Implementing and improving a tracking system to solve Multiple Object Tracking paradigm in crowded scene using CNNs

Radiomics Fall 2017

Clustering data of NSCLC-Radiomics with a k-means algorithm to predict survival time of lung cancer patients

Line Tracker Robot Fall 2017

Line Tracker Robot designing by employing CNY70 sensors, DC motor, and AVR microcontroller.

Image Processing Spring 2018

Noise and motion artifacts reduction and also compression using implemented JPEG algorithm.

Implement "Twitter" in C++ Spring 2018

 $Design \ of application \ "Twitter" \ and \ its \ implementation \ using \ hierarchical \ \textbf{Object Orientation} \ and \ HTTP \ protocols \ in \ \textbf{POSTMAN}$

Swipe Brick Breaker Spring 2018

Game development named "Swipe Brick Breaker" in C++ using graphical library (RSDL).

Digital Logic Design Lab Spring 2018

Designing a VGA controller, a function generator, DAC and a digital oscilloscope using **Verilog** in **Alltera Quartus** and implementing it on an **FPGA** board

ACM Vahed Summer 2018

An online virtual course selection website to help students to preplan their courses and give feedback on the course schedule using **Django** framework

Heart Rate Monitoring System Fall 2018

Stress detection using heartbeat sensors and $\mbox{\sc AVR}$ microcontroller

Three Connected Tank Fall 2018

Liquid level control for industrial three tanks system using a PID control

Speaker Recognition Spring 2019

Designing a classifier to recognize speaker of a sound based on Mel-frequency cepstrum

Music Retrieval Summer 2019

Implementing an identification system for Persian Music based on Pitch-frequency histogram and Metric Learning methods

File Sharing System Fall 2019

Developing a multi-threaded file transfer application via TCP and UDP connections in C

Maze Problem Fall 2019

Solving maze problem using Q-Learning

Classification Problems Fall 2019

Designing classifiers for various data sets by implementing SVM, Decision Tree, Bayesian Classifier, and Neural Network from scratch

Decryption using Genetic Algorithm

Spring 2019

Using Genetic Algorithm to find key of encrypted text

Chatting System Spring 2019

Developing a multi client chat system via TCP connections in Python

Mobile Pricing Spring 2019

Building Regression Model on mobile phone data set to fit an approximate estimation for the price model



TEACHING EXPERIENCE

Fall 2018 | Teaching Assistant

Electromagnetics: Instructor Prof. M. Shahabadi

> Oversaw students' assignments and graded them.

Spring 2019 | Teaching Assistant

Fall 2019 | Linear Conti

Linear Control Systems : Instructor Prof. A. Adhami, Prof. F. Bahrami

> Prepared projects and graded assignments.

Fall 2019 | Teaching Assistant

Spring 2020 Enginee

Engineering Mathematics : Instructor Prof. A. Tale-Masouleh

ightarrow Oversaw students' assignments and graded them.

Fall 2019 | Teaching Assistant

Spring 2020

Introduction to Computer and programming: Instructor Prof. M.R. Hashemi, Prof. H. Moradi

> Prepared projects and graded assignments.

Fall 2019 | Teaching Assistant

Spring 2020

Engineering Probability and Statistics: Instructor Prof. B. Bahrak, Prof. M. Abolghasemi

> Oversaw students' assignments and graded them.

Spring 2020 | Teaching Assistant

Digital Signal Processing: Instructor Prof. M.A. Akhaey

> Oversaw students' assignments and graded them.

Fall 2020 | Teaching Assistant

Industrial Control: Instructor Prof. A. Kalhor

> Oversaw students' assignments and graded them.

Fall 2020 | Teaching Assistant

Intelligent Systems: Instructor Prof. R. Hosseini

> Oversaw students' assignments and graded them.



SELECTED COURSES

Technical Language (20/20), English Language (20/20), Engineering Probability and Statistics (19.4/20), Systems Analysis (18.5/20), Advance Programming(18/20), Linear Control Systems(20/20), Microprocessors 1(20/20), Digital Signal Processing(19.2/20), Linear Algebra(17.75/20), Data Structure and Algorithms(20/20), Data and Analysis of Algorithms(20/20), Operating Systems(18.7/205), Modern Control(19.6/20), Intelligent Systems(20/20), Computer Networks(19.5/20, Artificial intelligence (20/20), Digital and Nonlinear Control Systems (20/20), Operations Research (Ongoing), Neural Networks and Deep Learning (Ongoing)

COMPUTER SKILLS

C++(Advanced), MATLAB(Advanced), C(Advanced), Python(Advanced), Git(Intermediate), Programming

HTML(Intermediate), Django(Intermediate), CSS(Intermediate), Bootstrap(Intermediate),

Assembly(Familiar)

Hardware Programming Verilog(Intermediate), System Verilog(Intermediate), AVR(Intermediate), Arduino(Intermediate), AVR(Intermediate), AVR(Intermedi

diate), ARM(Intermediate)

Simulation Softwares Multisim(Advanced), Pspice(Familiar), Proteus(Familiar), Altera Quartus(Familiar), Model-

sim(Intermediate)

ET_EX(Intermediate), Microsoft Word(Advanced) Typesetting

> OS Linux(Intermediate), Windows(Advanced)

MySQL(familiar) Databases



LANGUAGES

English Fluent

> IELTS (Academic): 7 (Listening: 7.5, Writing: 6, Reading: 8, Speaking: 7)

Persian Native