

Amirhesam SALIMNIA

Summer Internship

☎ +989369667566 @ amirhesam.salimni@google.com

in linkedin.com/in/AmirhesamSalimnia 🐙 github.com/AmirhesamSalimnia

📍 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

HONORS AND AWARDS

- **Silver Medal in Iranian National Physics Olympiad** 2015
- **Member of Iran's National Elites Foundation** 2015
- **Ranked 2nd** 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 Object Orientation and HTTP protocols in 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 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 Implementing an identification system for Persian Music based on Pitch-frequency histogram and Metric Learning methods	Summer 2019
File Sharing System Developing a multi-threaded file transfer application via TCP and UDP connections in C	Fall 2019
Maze Problem Solving maze problem using Q-Learning	Fall 2019
Classification Problems Designing classifiers for various data sets by implementing SVM , Decision Tree , Bayesian Classifier , and Neural Network from scratch	Fall 2019
Decryption using Genetic Algorithm Using Genetic Algorithm to find key of encrypted text	Spring 2019
Chatting System Developing a multi client chat system via TCP connections in Python	Spring 2019
Mobile Pricing Building Regression Model on mobile phone data set to fit an approximate estimation for the price model	Spring 2019

TEACHING EXPERIENCE

Fall 2018	Teaching Assistant <i>Electromagnetics : Instructor Prof. M. Shahabadi</i> ‣ Oversaw students' assignments and graded them.
Spring 2019 Fall 2019	Teaching Assistant <i>Linear Control Systems : Instructor Prof. A. Adhami, Prof. F. Bahrami</i> ‣ Prepared projects and graded assignments.
Fall 2019 Spring 2020	Teaching Assistant <i>Engineering Mathematics : Instructor Prof. A. Tale-Masouleh</i> ‣ Oversaw students' assignments and graded them.
Fall 2019 Spring 2020	Teaching Assistant <i>Introduction to Computer and programming : Instructor Prof. M.R. Hashemi, Prof. H. Moradi</i> ‣ Prepared projects and graded assignments.
Fall 2019 Spring 2020	Teaching Assistant <i>Engineering Probability and Statistics : Instructor Prof. B. Bahrak, Prof. M. Abolghasemi</i> ‣ Oversaw students' assignments and graded them.
Spring 2020	Teaching Assistant <i>Digital Signal Processing : Instructor Prof. M.A. Akhaey</i> ‣ Oversaw students' assignments and graded them.
Fall 2020	Teaching Assistant <i>Industrial Control : Instructor Prof. A. Kalhor</i> ‣ Oversaw students' assignments and graded them.
Fall 2020	Teaching Assistant <i>Intelligent Systems : Instructor Prof. R. Hosseini</i> ‣ 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

Programming	C++(Advanced), MATLAB(Advanced), C(Advanced), Python(Advanced), Git(Intermediate), HTML(Intermediate), Django(Intermediate), CSS(Intermediate), Bootstrap(Intermediate), Assembly(Familiar)
Hardware Programming	Verilog(Intermediate), System Verilog(Intermediate), AVR(Intermediate), Arduino(Intermediate), ARM(Intermediate)
Simulation Softwares	Multisim(Advanced), Pspice(Familiar), Proteus(Familiar), Altera Quartus(Familiar), Modelsim(Intermediate)
Typesetting	L ^A T _E X(Intermediate), Microsoft Word(Advanced)
OS	Linux(Intermediate), Windows(Advanced)
Databases	MySQL(familiar)

LANGUAGES

English *Fluent*
Persian *Native*