Reza Ramezanpour

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Education

Sharif University of Technology — *Tehran, Iran*

Bachelor of Science in Electrical Engineering, GPA: 3.71/4.00-17.41/20.00 (Ranked 55th among 168 students) — *2016 - now*

Beheshti High School — *Tehran, Iran*

Affiliated with National Organization for Development of Exceptional Talents [NODET], GPA:4,00/4.00 — *Fall 2011 - Fall 2016*

Ranked 4th in National University Entrance Exam among 200,000 competitors

Research

- Signal Processing
- Machine Learning, Neural Networks
- Cryptography and Network Security
- Parallel and Distributed Computation
- ASIC/RTL Digital Circuit Design
- Internet of Things

Experience

Teaching Assistant, Logic Circuits — *Dr. Mohammadzade*

Lab Assistant and guiding students about circuit design and coding — *September 2018 - January 2019*

Teaching Assistant, Computer Architecture — *Dr. Movahedin*

Lab Assistant and guiding students about coding and simulating with ISE and Modelsim — *January 2019 - June 2019*

Teaching Assistant, Numerical Calculation — *Dr. Bayat*

Theoretical Homework designing and assessing — *September 2019 - January 2020*

Teaching Assistant, Object Oriented Programming — *Dr. Hashemi and Dr. Vahdat*

Computer Homework designing and assessing — *January 2020 - July 2020*

Advertisement Manager and Website Developer, NeuroScience Symposium — *Webpage*

Winter 2019

Internship, HardTech Startup — *Webpage*

Internet of Things Internship — *Summer 2019*

Selected Academic Projects

Single Cycle and Multi Cycle Implementation — *Dr. Movahedeen*

Computer Architecture Course Project

- **Single cycle and Multi cycle implementation of MIPS architecture, in Verilog, under supervision of Dr. Movahedeen**

IMDB Data Analysis — *Dr. Maddahali*

Probability and Statistics Course Project

- **Exploring the database of imdb movies , working with statistical parameters and test, estimating imdb score, in Matlab, under supervision of Dr. Maddahali**

Checkers Game

Dr. Hashemi

Java Programming Course Project

- **Checkers game with java language and with graphic features with java FX with all features of main game under supervision of Dr.Hashemi**

Finding nearest neighbor distance histogram (with GPU)

Dr. Hashemi

Parallel Programming and Architectures Course Project

- **Analysis distance of 10000 data with 128 dimension from 1000000 data with same number of dimension and finding histogram of these distances with GPU for each query under supervision of Dr.Hashemi**

Voice Recorder and real-time pitch shifter

Dr. Haj-Sadeghi

FPGA/ASIC Systems Design Course Project

- **Building a voice recorder that records and plays back 8-bit digital audio samples, in Verilog, under supervision of Dr. Haj-Sadeghi**

P2P Channel Simulator

Dr. Pakravan

Data Networks Course Project

- **Designing and simulating peer to peer channel and define its routing protocols with socket programming , in Python, under supervision of Dr. Pakravan**

PCIe and DDR2 SDRAM Controller Simulation in ISE

Dr. Movahedeen

Computer Interface Circuits Course Project

- **Simulating PCI Express and DDR2 sample codes in ISE and analyzing transactions base on their standards, in Verilog, under supervision of Dr. Movahedeen**

Object Recognition in Images with Keras and Tensorflow

Dr. Salehkaleybar

Machine Learning Course Project

- **Implementing CNNs through a calssification task on CIFAR-10 dataset using Keras Library, under supervision of Dr. Salehkaleybar**

Designing KDC for safe communication in LAN

Dr. Mirmohseni

Cryptography and Network Security Course Project

- **Designing and simulating a safe KDC protocol that is immune from replay attack and analyzing and implementing all possible attacks on this protocl base on possible attacks on Dolev-Yau channel with Avispa/Span, under supervision of Dr. Mirmohseni**

Database Optimization

Dr. Gholampour

Bachelor Project

- **Designing and optimizing a database model for traffic data, under supervision of Dr. Gholampour**

Smart Positioning for IOT Application

Dr. Bayat Sarmadi

Work Project

- **Cloud base platform for positioning and navigation in IOT Application, under supervision of Dr. Bayat Sarmadi**

ESP32 , Simple IOT project

HardTech Internship

Work Project

- **Azure link : Azure Repo**

Stock Prices Prediction

Work Project

- **Predicting how the stock market will perform Using Machine Learning and Quandl Dataset**

Selected Courses

Fundamentals of Programming: 20	Dr. Mostafazadeh
Numerical Calculation: 19.4	Dr. Bayat
Java Programming: 20	Dr. Hashemi
Parallel Programming and Architectures: 20	Dr. Hashemi
FPGA/ASIC Systems Design: 19.5	Dr. Haj-sadeghi
Communication Systems: 17.0	Dr. Behrouzi
Computer Architecture and Microprocessor: 20	Dr. Movahedeen
Data Structure and Algorithm Analysis: 16	Dr. Salehkaleybar
Data Networks: 18.5	Dr. Pakravan
Machine Learning: 19.0	Dr. Salehkaleybar
Microprocessor Systems Design: 17.0	Dr. Haj-Sadeghi
Cryptography and Network Security: 18.4	Dr. Mirmohseni
Computer Interface Circuits: 20	Dr. Movahedeen
Big Data: this semester	Dr. Gholampour

Computer Skills

Programming Languages

- C/C++, Python, JAVA, Assembly

Circuit Design Languages and Programs

- Verilog, Altium Designer, PSPICE, HSPICE, Proteos, Model-sim, Xilinx ISE

Web Development

- HTML, CSS, JS, FLASK, MYSQL, MongoDB, Django

Assembly and Micro-controller

- MIPS, AVR, ARM, x86, Arduino

Linux

- Bash Scripting

Documentation

- LATEX, Microsoft Office

Others

- MATLAB, CUDA