

Maryam Zangeneh

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CONTACT

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OBJECTIVE

Pursuing my studies in a top ranked university to enhance my understanding of my interesting fields of study and to discover my innate abilities in those fields.

EDUCATION

- **Ph.D in Biomedical Engineering** Current
K. N. Toosi University of Technology
- **M.Sc. in Biomedical Engineering** Sept. 2018
Isfahan University
GPA: 18.86/20
1st rank among 11 Biomedical Engineering students
- **B.Sc. in Electrical Engineering** Sept. 2014
Hamadan University of Technology
Minor in Electronic
GPA: 16/20
5th rank among 60 Electrical Engineering students
- **Diploma in Mathematics and Physics Discipline** Jun. 2010
Ameneh Highschool, Hamadan, Iran
GPA: 19.23/20

RESEARCH INTERESTS

- Brain-Computer Interface Systems(BCI)
- Biomedical image processing
- Design of Electronic systems

TEACHING EXPERIENCES

Teaching Assistance: "Microprocessor" Spring 2014

- Instructor: Dr. Ehsan Erabi

Teaching Assistance: "Computer System Architecture" Spring 2014

- Instructor: Dr. Mehdi Ahmadvand

ACADEMIC COURSE PROJECTS

- "Implementing AC-Coupled circuit for measuring biomedical potential using Pspice" Jul. 2017
Final project of "Biomedical Instruments" under the supervision of Dr. Amin Mahnam
- "Designing and Implementing an ECG amplifier with right leg drive using Pspice" Jun. 2017
Exercise of "Biomedical Instruments" under the supervision of Dr. Amin Mahnam
- "Implementing the SSVEP extraction base on the similarity of background in MATLAB" Apr. 2017
Final project of "Biomedical Signal Processing" under the supervision of Dr. Mohammadreza Yazdchi
- "Designing and Implementing an air conditioning system which is customizable with AT-MEGA Processor" Dec. 2014
Final Project of "Microprocessor" under the supervision of Dr. Ehsan Erabi
- "Implementing a base CPU using VHDL" Feb. 2013
Final project of "Computer System Architecture" under supervision of Dr. Mehdi Ahmadvand
- "Designing and Implementing an amplifier using Pspice" Jun. 2013
Final project of Electronic Laboratory
- "Designing a birthday cake using C programming language" Dec. 2011
Final project of C programming language under the supervision of Dr. Mahlagha Afrasiabi

RESEARCH EXPERIENCES

- "Optimization of electrodes placement for development of an efficient SSVEP-based Brain Computer Interface for different users" Sept. 2018
- "Electric power supply methods for spacecraft" Sept. 2014
Final thesis of my bachelor's degree

COMPUTER SKILLS

- **Technical Simulators:** Proteous, Pspice, MATLAB, ARM, Python, FSL
- **Application:** LaTeX, Microsoft Office, Mendely, Endnote
- **Operating Systems:** Microsoft Windows

LANGUAGES

- **Farsi:** native
- **English:** fluent
Certificate of writing class and professional essay writing
Passing different English books such as IELTS7, Headways, FCE(First Certificate in English), Oxford word skills, English grammar digest

HOBBIES

- Swimming, going to gym, playing basketball
- Reading books