

Zara Vajihi

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Objective: To enter an MS program in Electrical Engineering that best matches my background and interests.

Education: **Bachelor of Science:** Electrical Engineering (Power) *Sept.2006-May.2011*
University of Mazandaran in Babol (Babol "Noshirvani" University of Technology)

- Tier 1 National University. Tuition paid by the Iranian government grants

High School diploma in Math and Physics *2001-2004*, Azarm HS,
Pre-University diploma in Math and Physics *2004-2005*, Pardis HS, Babol, Iran

- One of the best class GPA, multiple years

Research Interests:

- Design, Analysis , and Control of Electrical Systems
- Optimization Algorithms (Genetic, Particle Swam, Cuckoo)
- Adaptive, learning and evolutionary systems and Modeling
- Robotic control and automation

Select Projects:

- B.Sc. Thesis: Harmonic Power Flow (*2010-2011*)
- Analysis of Harmonic Power Flow in distribution systems via MATLAB® Programming Tools
- A Review of Capacitor Placement Optimization Using Genetic Algorithm (*2010*)
- Database Design for a POS System (*2013*)

Academic & Teaching Experience:

University of Mazandaran

- Teaching Assistant (*2011*)
 - Signals And Systems Processing (Dr. Ezoji)
- Teaching Assistant (*2010*)
 - Power Systems Analysis (Dr. Hosseini)
- Technical Committee & Assessment Panel member of 7th National Robotic Competitions (*2009*)
- Tutoring University and High School Students in Mathematics and Physics(*2008-2009*)

Technical Skills:

Expertise:

- Programming Languages:
 - C, C#, Java
- Hardware:
 - AVR Micro-Controller, CodeVision, and Keil software (C Compiler)
- Proficient in Proteus software (Simulation of analog and digital circuits and designing printed circuit boards)
- Database: MySQL, SQL Server, Access
- Design, simulation, and analysis tools:
 - MATLAB, SIMULINK, Programing Tools
 - CymeDist
 - Power Word
- Microsoft Office Suite of Applications:
 - Excel, Word, PowerPoint Etc.
- Search Engines, indexing services, etc

Familiar with:

- Altium
- Python, PLC
- Sketchup, Illustrator, AutoCAD

Work Experience:

System Engineer at Center of Applied Control System (CACs)(www.appconsys.com):

Full-time (2013-present), Iran

- System design. Hardware -Software integration.
- Database Design and execution in MySQL
- Programming with Java Eclipse and C#

System Engineer: Part-time (2011), Iran

- Operational Design, Hardware-software deployment and staff training of computerized POS system. Duties included:
 - System installation, automation, trouble shooting
 - Human resource management
 - Network planning and execution

Internship: Spring 2011, Iran

- Electrical Power Distribution Company, Babol Branch
- Design, simulation and analysis of power distribution systems with CymeDist software.
- Familiarized with Distribution Systems equipments
- Calculating Electrical and Mechanical Factors For Distribution Cables and Columns
- Drawing Map of Distribution Power Sections via AutoCAD

Workshop: Summer 2008, Iran

- 100-hour workshop: Detailed Computer Hardware Operation Study & Hands-on Assembly of Desktop Computers. Technical and Vocational Training Institute of Iran

Language Skills:

- Fluent in Farsi and English.
Test Score: TOEFL iBT, Total Grade: 87, (R: 26/30, L: 22/30, S: 20/30, W: 8/30)
- Familiar with French and Arabic.

Personal:

- Female. Married. DOB: 23/07/1987. Interests: Playing Classical Daff, Fashion Design and Dressmaking, Basketball, Swimming and travelling

References:

- Excellent academic and business references are furnished upon request