

Reza Mousavi

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Professional Summary:

As a M.Sc. Electrical Engineer I have gained an extensive experience in simulation and practical design of Power Electronics-based projects during my previous works, researches, courses and projects. Other Interests of mine are included in Research Interests part.

Education:

Sep 2011 – Jan 2014

M.Sc. of Electrical Engineering

University of Tehran, Tehran, Iran

GPA: 17.48 /20

Thesis Title: “ Investigation and Comparison of Control Strategies of Ultracapacitors Utilization in Hybrid Fuel Cell Vehicles and Optimum Determination of the Number of Ultracapacitors ”,

Thesis Score: 19. 5/20

Sep 2006-Sep 2010

B.Sc. of Electrical Engineering

Isfahan University of Technology, Isfahan , Iran

GPA: 15.25/20

Thesis Title: " Economic Utilization of Power Systems ",

Thesis Score: 19/20

Technical Skills:

• Technical Software:

- MATLAB and SIMULINK: Excellent
- PSCAD/EMTDC: Excellent
- Co-simulation using SIMULINK and PSIM: Excellent

- PSPICE: very good
- Keil uVision
- Altium Designer (**PCB** Design Software): Excellent
- MAXWELL (2D and 3D Finite Element Method Analysis Software): good
- COMBIVIS5 (**KEB Drive** Programming Interface Software): Excellent
- GDC (Global Drive Control – **LENZE Drive** Programming Interface Software): Excellent
- **General Software:**
 - Microsoft Office Package: Excellent
- Knowledge of working with different versions of Windows and Linux
- **Programming Languages:**
 - C
 - C++
 - MATLAB-specific programming language

Research Interests:

- Active Power Filters (APFs)
- Hybrid, Electric Vehicles (HEVs)
- Photovoltaic Systems (PVs)
- Adjustable Speed Drives (ASDs)
- Renewable Energies
- Induction Heating and Resonant Converters

Honors:

- Cooperation with 6th Power Electronics and Drive Systems Technology Conference (PEDSTC) as a referee, *Sep. 2013*
- Ranked 40th in the nationwide university entrance examination for M.Sc. degree among over 80000 university graduates, *Aug. 2011*
- Ranked 520th in the nationwide university entrance examination for B.Sc. degree among over 100000 high school graduates, *Aug. 2006*

Publications:

- R. Mousavi, B.Asaei." Optimization of fuel cell stack, ultra-capacitor, and battery banks based on cost function minimization for fuel-cell

electric vehicles," Environment and Electrical Engineering (EEEIC), 2014 14th International Conference, 10-12 May 2014, p17 – 22.

- "A Hybrid Design Digital Dual-loop Control for High Power Ground Power Units (GPUs)", Submitted to *IEEE TRANSACTIONS ON POWER ELECTRONICS*

Qualification and Training Courses:

- International Statement of Accomplishment of "Introduction to Power Electronics", University of Colorado Boulder's Online Course, *Dec. 2013*
- International Certificate of Teaching Assistant Workshop, University of Tehran, *Feb. 2013*

Teaching Experiences:

- **Public:**
 - Teaching assistant of Power System Analysis I, Isfahan University of Technology, Isfahan , Iran, *2009*
 - Teaching assistant of Physics I, University of Tehran, Tehran, Iran, *2011*
 - Teaching assistant of Power Electronics II (Master of Science Period Course), University of Tehran, Tehran, Iran, *2012-2013*
 - Instructing and lecturing Industrial Electronics Laboratory, University of Tehran, Tehran, Iran, *2012-2015*
 - Instructing and lecturing Power Electronics II Laboratory (Beside its course), University of Tehran, Tehran, Iran, *2012-2013*
- **Private:**
 - Private teaching of Physics I and II, Azad Islamic University, Isfahan, Iran, *2010-2011*
 - Private teaching of Engineering Mathematics, Tehran, Iran, *2011*

Memberships:

- Member of Iran Society of Engineering Education (ISEE)

Hobbies:

- Swimming, bodybuilding
- Persian
- Studying
- Languages (Deutsch, Chinese, etc.)
- Movies

References:

- Dr. Shahrokh Farhangi, Dean of Electrical and Computer Engineering Faculty, Professor at University of Tehran, Tehran, Iran
- Dr. Hamid Lesani, Professor at University of Tehran, Tehran, Iran
- Dr. Behzad Asaei, Associate Professor at University of Tehran, Tehran, Iran

Personal Details:

- **DOB:** 14/8/1988
- **Marital Status:** Single
- **Languages:**
 - **National:**
 - Persian: Native
 - **International:**
 - English: Good
- **Nationality:** Iranian
- **Military Service:** Done
- **Driving License:** Both Passenger-Car and Motorcycle