

Mohammad Ali Khademi

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EDUCATION AND QUALIFICATIONS

Sep 2015–Sep 2016 (expected completion date) MSc. Advanced Machines & Power Electronics, University of Sheffield, Sheffield, UK

- Relevant modules:
 - **Power Electronics Converters**
 - **AC Machines**
 - **Permanent Magnet Machines and Actuators**
 - **Advance control of Electrical Drives**
- Elected as the AMPERE Students Representative in Student Union and Faculty of engineering.
- Proposed dissertation: Power electronics and grid integration of Renewable energies.

Sep 2009-Jan 2014 BSc. Electrical Engineering, power systems, Sadjad University of Technology, Mashhad, Iran.

- Total GPA: 85%
- Relevant modules:
 - **Power system Analysis 1&2&Lab (83%, 85%, 95%):** analysed transmission lines and different possible fault in Power systems. Also used Matlab programing, DigSILENT and Neplan in Power system Analysis.
 - **Power electronics (99%):** analysis and design of different Converters and power quality filters through Matlab Simulink.
 - **Electrical Machines Lab1&2 (90%, 87.5%):** Studied AC, DC, PM, Synchronous, Asynchronous, brushed and brushless machines structure and analysis.
 - **Electrical Installations (77.5%):** Electrical installations had an Introduction to lighting using Dialux software, safety and cable sizes and properties in buildings and industry.
- BSc. Project: construction and analysis of a small scale wind turbine (100%): Used mostly daily equipment in a group to build a professional 360 degrees windmill to generate electrical energy from the Wind, and defined possible ways of connecting the prototype wind turbine to the grid thorough studied and simulated converters. The entire teamwork led to that semester's most Exciting final project.

Sep 2002- Jun 2008 Secondary & High school Dubai National School (American Curriculum), Dubai, UAE.

- Total GPA: 94 / 100
- Key Subjects: Math (95%), Physics (94%), English (88%) and Chemistry (94%)
- High school certificates of Excellency in Mathematics, Physics, Biology and Chemistry.

PUBLICATIONS

- "Wind turbine Harmonic mitigation through Active Power Filter" ICEEE 5th Conference, Iran. [Link](#)
- "Study of Harmonics Effects Generated by a Wind Park on Network Losses" 14th EEEIC, Poland.

WORK EXPERIENCE

Sep 2013-Continued Co-Founder in “Behin Part” technical company, Mashhad, Iran.

- Working with governmental and private sectors on “Mashhad” distribution grid on system maintenance & upgrade.
- Some of Accomplished Projects:
 - Replacement of over 28 Km of old copper line with new aluminium ones
 - Installed 6 transformers of 100KVA
 - Installed 150m of 20 KV underground grid
 - Installed 80 pedestal in 2 days
- “Behin Part” is still running and I receive reports from my representative in the management council.

March 2014-Continued Co-Founder of “Dr. Hesabi” Fully Smart Kindergarten & Primary School, Mashhad, Iran.

- Establishment of a new Fully Smart kindergarten & Primary School, equipped with world class teaching facilities, curriculum and staff.
- This School is part of a much larger group of Schools throughout the city of Mashhad teaching wide range of student from kindergarten to the university level.
- We have managed to educate around 200 students in past two years. “Dr. Hesabi” is still running and I receive reports from my representative in the management council.

May 2014-Continued Co-Founder and Investor in “Creative Concrete” group, Mashhad, Iran.

- Creative concrete is focused on stamped and designed concrete, applied in urban and industrial areas. I have invested in this business after some research on the market demand. I have been the manager since then and all reports are delivered from my trustee, even when I’m out of the country.
- By now we have successfully carried out thousands of meters of concrete with different colors and designs, stamped and designed for customers from both government and private sectors.

Dec 2014-Aug 2015 Relationship & sales manager in “Interglobe General Trading”, Dubai, UAE.

- Interglobe is a giant trading company dealing with wide variety of products and services such as Gypsum rock & powder, medical equipment, D2 & other petroleum products and ETC...
- The company has correspondence in many different countries and people.

Sep 2006-Jun 2008 Part of “Support General Trading” IT maintenance group, Dubai, UAE.

- We have been in charge of any IT circumstances to resolve, and were accustomed to different software and hardware installations and possible issues.