

Dr. Kamel Saleh

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CURRENT POSITION

Lecturer at Electrical Engineering Department, An- Najah National University, September 2011.

EDUCATION

• PhD. Electrical Engineering, Nottingham University, United Kingdom, Sept 2006 – Feb 2010

My research has resulted in some major advancements in the field of motor control; the application of the “Fundamental SVPWM Method for Sensorless Control” to both permanent magnet motors and induction motors has received considerable interest from the international research community, as is evidenced by my recent journal and leading conference publications, and is now attracting interest from companies looking to use it for commercial development. My PhD studies extended the application to high power drives using multi-level converters, and again this is receiving commercial interest.

Over the period of my time at Nottingham, I have developed technical expertise in the design, build and test of power electronic systems, especially concerned with advanced inverters (and their control) for electrical machines. This includes hardware design and software implementation of these systems on DSP/FPGA based controllers. Please see the publications

• MSc. Electrical Engineering, Nottingham University, United Kingdom, Sept 2005 – Sept 2006

• BSc. Electrical Engineering, An-Najah National University, Palestine, 1998 – 2003

WORK EXPERIENCE

Assistant Professor, Electrical Engineering Department, An-Najah National University, Nablus, West Bank, Palestine. Sept 2010 - Present.

Research Fellow, Power Electronic, Control and Machine Research Group, Nottingham University, UK, Jan 2010 – Dec 2010

- Developing an auto-commissioning procedures for sensorless control of Permanent Magnet AC motors to be adopted in industrial drives.
- Assisting in conference papers reviewing and initial decision making.
- Coordination and supporting service for external research collaborators.

Engineer in the planning section at Palestinian Energy Authority in Anabta / WestBank

- design low and medium voltage electrical networks for Palestinian villages

Certifications or professional registrations

- Paper reviewer for IET journal of power electronics in the field of multilevel inverters and their modulation techniques.

ADDITIONAL CAREER EXPERIENCE - PART TIME

- Lab demonstrator at the school of electrical engineering at Nottingham university, UK ,2006-2009.

SOCIAL AND ORGANIZATIONAL SKILLS

- I was elected as an organiser of social events in Palestinian society at Nottingham university in UK .
- I was a member of rural developing society in West-Bank .

COMPUTER SKILLS

Languages : Pascal , C++ , Visual C++ ,Visual Basic, Avenue for ArcView,VHDL.

Applications : Microsoft Office (Excel , WinWord , PowerPoint ,Ms-Projct ..etc) ,Code Composer and DSP , FPGA, Matlab/Simulink , PCB layout, SABER.

TRAINING

1. Training at Palestinian Telecommunications company (PALTEL).

Trainer: PALTEL Staff.

Aug2002 -Dec2002.

2. (A+) Course at Information technology center(AMRA)-Nablus.

Trainer:Eng.Nizar Shana'a.

Feb 2001-June 2001

3. Courses In MCSA at AMRA

a- Windows 2000 Professional b- Windows 2000 Server

Trainers: Eng.Nizar Shana'a

Feb 2001-June 2001 (40 hour)

4. MATLAB Course at AMRA

Trainer: Dr .Allam Mousa.

Feb 2001- march2001 (20 hour).

5. Networking Course at Khadouri

Trainer: Khadori Staff.

Oct 2003 - March 2004 (100 hour).

6. SCADA and ENERGY MANAGEMENT training course

Trainer: Canadian lecturer at Palestinian Energy Authority .

Oct 2005 (30 hour).

AWARDS

- **EPSRC full doctoral scholarship** award at Nottingham University, UK, PhD 2006-2009.
 - **Hani Qaddomi scholarship**, partial scholarship award, MSc. Electrical engineering, 1998.
 - **Palestinian Ministry of Higher Education**, Partial Scholarship award, BSc. Electrical engineering, 1998.
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COURSES TAUGHT:

BACHELOR COURSES:

- Electronics 1
- Electrical Machines
- Programmable logic controller (PLC)
- Control of electrical machines(Drives)
- Control systems
- Control Lab
- Power electronics
- Electrical installations

MASTER LEVEL COURSES:

PUBLICATIONS

REFEREED JOURNALS:

- HUA, Y., SUMNER, M., ASHER, G., GAO, Q. and SALEH, K., “ Improved sensorless control of a permanent magnet machine using fundamental pulse width modulation excitation”, IET Electric Power Applications. April 2011 -- Volume 5, Issue 4, p.359–370.
- SALEH ,K. SUMNER, M., and ASHER, “Sensorless control of induction motors using multi-level converters”. Power Electronics, , IET Electric Power Applications. Feb. 2012-- Volume 5, Issue 2, p. 269 - 279

BOOK CHAPTER:

REFEREED CONFERENCES:

- SALEH, K., SUMNER, M., ASHER, G. and GAO, Q, “Sensorless control of high power induction motors using multilevel converters” 5th IET International Conference on Power Electronics, Machines and Drives (PEMD 2010), 19-21 April 2010 Page(s): 1 – 6, UK
- SALEH, K., SUMNER, M., QIANG, G. and ASHER, G, “A novel technique for sensorless control of high power induction motors using multilevel converters” Energy Conversion

Congress and Exposition (ECCE), 2010 IEEE, Page(s): 492 – 499. 12-16 Sept. 2010. USA

- SALEH, K., SUMNER, M., ASHER, G.; TOMASINI, M.; GAO, Q,” Low Speed Sensorless Control of an Induction Motor Fed by Multilevel Converter to Reduce Current Distortion”, 13th European Conference on Power Electronics and Applications, 2009. EPE '09. Page(s): 1 - 10.
- SALEH, K., SUMNER, M ‘Auto Commissioning of the Position Phase Shift Compensation in Sensorless Permanent Magnet Motor Drives’, SLED conference , Birmingham, UK.2011
- SALEH, K., SUMNER, M.,” Position estimation in a true asymmetric cascade H-bridge multilevel inverter”, 14th European Conference on Power Electronics and Applications, 2011. EPE '11. Page(s): 1 - 10.

REFERENCES

Available upon request
