

CURRICULUM VITAE

Name: Mohamed K. E. DARWISH

Address: *Home:* 51 Brambles Farm Drive, Uxbridge, Middx UB10 0DY.

Work: Brunel University, School of Engineering and Design,
Uxbridge, Middlesex UB8 3PH.

Present Post: Senior Lecturer and Course Director, School of Engineering
and Design, Brunel University
MEng Course Director – Electrical and Electronic
Engineering, Brunel University

DOB: 16/12/1955

Nationality: British

Marital Status: Married - one child

Qualifications: B.Sc. 1978, First Class – Helwan University, Cairo.
Ph.D. – 1987, Brunel University – U.K.
CEng, MIET, MIEEE

Experience:

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| <i>June 76 – Oct. 76</i> | General Transportation Company, Alexandria. |
| <i>June 77 – Oct. 77</i> | ICL, Alexandria, Egypt. |
| <i>Oct. 78 – Mar. 82</i> | Electrical Engineer, National Service, Egypt. |
| <i>Aug. 83 – Apr. 87</i> | Research Assistant, Brunel University, U.K. |
| <i>April 87 – June 87</i> | Software Engineer, Digital Audio Ltd, London. |
| <i>June 87 – Present</i> | Lecturer / Senior Lecturer, Brunel University, U.K. |

Referees:

Available on request.

Research Profile

I have pioneered research in the field of active filters for elimination of current harmonics in power systems. In particular I have proposed new circuits and approaches to overcoming the problem of speed and accuracy of controlling active filters. I have published over 80 papers in leading journals and conferences, obtained as principle investigator EPSRC and TCS research grants and successfully supervised 18 PhD students.

1. *Publications:*

Over 120 Journal and conference papers.

2. *Research funding obtained:*

- EPSRC Project (Programmable Tuned Filters for Retrofit Applications).
- Teaching Company Scheme Project (Power Quality Solutions).

3. *External examining:*

- Thames Valley University (October 2006 to September 2010).
- University of West England (October 2011 to September 2015).
- University of East London (October 2011 to September 2015).
- External examiner for PhD thesis at Glasgow, Bath, Exeter, University of Glamorgan and Malta Universities.
- I have chaired several conference sessions in the area of Power Systems and Power Electronics.

4. *Consultancies:*

I have undertaken the following consultancies through Brunel Consultancy Services - Research Services Bureau:

- International Tin Research Institute - for design and analysis of power supply for specimen.
- J. Roger Preston & Partners Consulting Mechanical and Electrical Engineers - for testing and reviewing ballast operation.
- SAFEWAY STORES - for investigating the reasons behind computers resetting at Safeway stores.

5. *Short Courses for Industry:*

I have organised and lectured on power quality and power electronics for the following companies:

- British Steel - Swindon Technology Centre - U.K.
- Omron Electronics Ltd - European Technical Centre - U.K.
- RAF Menwith Hill, Harrogate – U.K.
- Electricity Authority, Nicosia, Cyprus.
- Osborne Engineering, Newcastle – U.K.
- Osborne Engineering, Dubai – UAE.
- Technical Consultancy Ltd – Qatar

Teaching Profile

My aim as a lecturer is to support the students, seek their active engagement in the learning process, provide realistic yet challenging goals and use assessment as means of teaching. I also use my experience as a researcher in developing the students' learning skills.

Courses I am teaching (or have taught):

- *Electrical Devices and Systems* - level 1
- *Electronics and Digital Systems* - level 1
- *Computers & Their Applications* - level 1
- *Power Electronics* - level 2
- *Energy Systems* - level 2
- *Electronic, Electrical & Microprocessor Applications* – level 2
- *Power Electronics Systems* - level 3
- *Design of Mechatronic Systems* - MSc
- *Power Electronics and FACTS* - MSc

Administrative Duties

- 1) MEng Course Director (September 2010 – Present)
- 2) Senior Tutor (September 2000 - August 2004)
- 3) Engineering Project Co-ordinator (August 1999 - September 2005)
- 4) IET (previously IEE) Student Counsellor (August 1996 – Present)