

CRAIG PETER LAWSON

Address	11 Broad Green Cranfield Bedfordshire MK43 0JQ England	Nationality:	British
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Education

Cranfield University

1999 – Ph.D. Tip Timing Techniques in Gas Turbines

Technical Project: The project involves instrumentation research into non-contact blade tip timing measurement. A compressor test facility has been commissioned to allow experiments to be performed. Control and instrumentation electronics and software designed and produced. A novel capacitance probe approach is used to measure blade tip timing. Results are correlated with strain gauge tip deflection results and finite element simulations.

Management Topic: Research project selection model analysis and field-test.

The University of Edinburgh

1995 – 1999 BEng Honours Electrical and Mechanical Engineering 2.1

Studies - 1st - 4th Years (1995/99):

Lecture courses: Systems engineering, power systems and machines, power electronics, control and mechatronics, dynamics, energy systems, circuit theory and analysis, digital circuits, solid mechanics, thermodynamics, materials science, production engineering, law for engineers, analogue circuits, fluid mechanics, 'C' programming, maths, industrial management.

Honours Project: The design of high frequency transformers for switched mode power supply applications. Ultimately producing software to assist engineers carry out design procedures. Minebea Electronics Ltd supported the project.

Computer based courses: CAD/CAM, Computational Fluid Dynamics.

Laboratories: Design and build circuitry to display a tuned television signal on an oscilloscope; design and programme a microprocessor control system; power electronics laboratory; mechanical engineering experiments to support lecture material. Design and build circuitry to digitise speech; power and machines laboratory.

Queen Anne High School, Dunfermline, Fife

1989 – 1995

CSYS: Physics [C].

SCE Highers: Chemistry [B], English [C], Geography [B], Physics [A], Management & Information Studies [D], Mathematics [A].

SCE Standard Grades: Chemistry [2], Craft and Design [3], English [2], French [2], Geography [2], Physics [1], Mathematics [1].

Awards

University: Class Medal (1998/99) "Electrical and Mechanical Engineering 4".

Ewart Farvis Prize (1999): Best industrially relevant Honours project (software).

ImechE "The Institution Best Student 1999" Electrical and Mechanical Engineering, The University of Edinburgh

Ford Prize: 3rd Year Group Design Project (1997/98) Mechanical Engineering 3.

Class Medal (1996/97) "Electrical and Mechanical Engineering 2".

Industry: Shell Technology Enterprise Programme 1998, Fife Region: "Best Presentation and Written Account".

Sport: David Weston Trophy (2001): Improvements to sport and leisure at Cranfield Univ.

Professional Societies

Associate Member, The Institution of Electrical Engineers. Membership: 33281282
Associate Member, The Institution of Mechanical Engineers. Membership: 80004959

Additional Skills

Computing *General Programming:* C, C++, Visual C++ and Intermediate FORTRAN.
Internet Programming: HTML, JavaScript, Perl and PHP.
Modelling, Simulation and Design: I-DEAS, Solid Edge, ACIS, Fluent, Quick Route. *Mathematical:* Matlab, Mathcad.
Applications: Microsoft Office, Adobe Photoshop and Adobe FrameMaker.

Languages Basic written and conversational French.

Other Full UK Driving Licence.

Work Experience

Enemalta **Electrical engineer**

July-August 1999, work in the Maltese electricity grid operations and planning office. Specifically assisting in co-ordinating switching operations to deal with faults on the grid. Also recording statistics on network load flow and faults.

Alba Diagnostics Ltd. **Design engineer**

June-August 1998, work devising and evaluating methods for testing car shock absorbers, with a view to detecting faulty shock absorbers. Part of the Shell Technology Enterprise Programme.

Northern Electric and Gas **Sales representative**

During the summer of 1997, door-to-door work advising members of the public on the cost saving opportunities arising from the end of the British Gas monopoly of the gas supply market.

Work Experience Placements

1993 British Telecom, one week.
1992 GEC Marconi, one week.

Activities and Interests

Interest in the latest forms of information technology. Consequently highly proficient in many Internet programming languages. Design, programming and maintenance for several successful web sites.

Secretary and Webmaster for the Cranfield University Badminton Club.

Playing badminton and also participating in recreational mountain biking.

Current affairs and politics have always been of interest.

Referees

Dr Paul Ivey
Power, Propulsion and Aerospace Engineering Department
School of Engineering
Cranfield University
Cranfield
Bedfordshire
MK43 0AL

Mr Alan Cassar
Enemalta
Development Section
Central Administration Building
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