



Europass Curriculum Vitae

Academic Profile

Personal information

First name(s) / Surname(s) **Mavromatidis Pavlos**
Telephone(s) +357 99187019
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Nationalities Greek, Canadian

Education and training

Dates Oct. 2001 – Dec. 2005,
Title of qualification awarded **Ph.D. in Electrical Engineering and Electronics**
Principal subject Microwave Thermal Spraying
Name of awarding institute The University of Liverpool, Liverpool, UK
Key features Work focused on the design and construction of a novel microwave heating system for the deposition of metallic and ceramic coatings.
Awards Scholarship from the Engineering and Physical Sciences Research Council (EPSRC) in the UK

Dates Sept. 1997 – July 2001
Title of qualification awarded **BEng Honours (Upper Second Class Hon) in Computer Electronics & Robotics**
Name of awarding institute The University of Liverpool, Liverpool, UK
Key features Programme comprehensively covered the foundations of Electronic and Electrical Engineering covering subjects in the following areas: Electronics, Digital Electronics, Communications, Computer Programming, Computer Architecture, Image processing, Control Engineering, Robotics, Signal Processing, Electromagnetics.

Work experience

Dates October 2016 - Present
Employer name Frederick Institute of Technology
Occupation or position held **Academic Director**
Main activities and responsibilities

- Supervising the operation of the Programs of Study.
- Attending to the development of the academic staff.
- Monitoring the grading system and evaluation of students' achievements
- Supervising staff assessment.
- Assessing the coordinators of the Programs of Study.
- Cooperating with coordinators of Programs of Study for the implementation and development of the programs and the promotion of research.
- Ex-officio member of the Council and the Chairman of the Academic and Disciplinary Committees.

Dates	October 2015 - Present
Employer name	Frederick Institute of Technology
Occupation or position held	Coordinator of two year diploma "Electronic and Electrical Systems Technician",
Main activities and responsibilities	<ul style="list-style-type: none"> • Composing and coordinating the Application of Accreditation. • Presentation to the external evaluation committee. • Organization of lab and equipment. • Assignment of work load to staff of the program of study.
Dates	September 2009 - January 2017
Employer name	Frederick University, Cyprus
Occupation or position held	Visiting Lecturer
Main activities and responsibilities	<ul style="list-style-type: none"> • Teaching and coordinating courses and their laboratories in BSc program of study. • Taught courses include: <ul style="list-style-type: none"> – Automation and Robotics – Mechatronic Systems – Automotive Mechatronics – Programmable Logic Controllers for Industrial Applications. – Embedded Systems – Digital Electronics I – Digital Electronics II – Freshman Electrical Engineering – Electrical Science – Vehicle Electrical and Electronic Principles – Digital Communication Systems Lab – Electronics – Introduction to Senior Project – Senior Project – Technical Writing • Supervision of BSc and MSc projects. • Academic advising. • Member of Frederick Research Centre
Dates	December 2005 - November 2008
Employer name	The University of Liverpool, Liverpool, UK
Occupation or position held	Research Associate (Deputy Head of the RF and Microwave Power Applications Group)
Main activities and responsibilities	<ul style="list-style-type: none"> • Proposal writing, project cost management, planning and organising meetings, report writing • Self-reliant research and development, modelling, design and construction of prototype systems • Publish innovative outcomes to scientific journals and international conferences • Team work with academic staff and EU partners • Supervision of technical staff
Research Projects	<ul style="list-style-type: none"> • Microwave cleaning of leaf residue from surface of a railtrack • Ice removal from third rail (power line) • Microcat (microwave plasma for the reduction of CO, CO₂, NO and NO₂) • Microwave regenerated carbon filter • Microwave Thermal Spraying
Grants	"Microwave cleaning of leaf residue from surface of a railtrack". Funded by the Rail Safety and Standards Board. Main investigator: Pavlos Mavromatidis. Amount: GBP 100,000, November 2006.

Personal skills and competences

Technical skills

- High pressure Hydraulic and Pneumatic engineering
- Vacuum Engineering
- Handling high temperatures
- Welding, Brazing and Forging
- Plasma Engineering

Computer skills

- Extensive knowledge in programming (Ladder, Function Block Diagram) and installation of Programmable Logic Controllers
- VAL robot programming
- Java, Assembly, C
- Established user of MATLAB
- Established user of electromagnetic field simulation package (High Frequency Structure Simulator -HFFS).
- Advanced user of Microsoft Office

Professional Organisations

- Member of ETEK
- Member of the Institution of Engineering and Technology (IET)
- Member of the Institute of Electrical and Electronics Engineers (IEEE)
- Member of the IEEE Robotics and Automation Society

Publications

P. Mavromatidis, A. Shaw, A.I. Al-Shamma'a, J. Lucas, W. Lucas, "2.45 GHz Microwave Plasma System For High Velocity Thermal Spraying", Journal of Materials Processing Techniques, 153-154, page: 294-299, 2004.

Fitzpatrick C., Mavromatidis P., Lewis E., Lucas J., Al-Shamma'a A.I., "Experimental investigation into low pressure gas discharge in microwave electric field optical sensor probes", Sensor review journal, Volume 23, Number 1, 2003, ISBN 0260-2288, pp 44-47.

Mavromatidis P., Al-Shamma'a A.I., Lucas J., Lucas W., "Computer control of a microwave spray system", WTIA 50th Annual Conference and 12th International TWI Computers in Welding and Manufacturing Conference, Sydney, August 2002, paper 69.

Mavromatidis P., Al-Shamma'a A.I., Lucas J., Stuart R.A., "Microwave plasma high velocity thermal spraying", Proceedings of the XIV International Conference on Gas Discharges and their Applications, Vol. 2, ISBN 0-9539105-1-2, Liverpool, UK, 2nd- 6th September 2002, pp 28-31.

C Fitzpatrick, P Mavromatidis, E Lewis, J. Lucas, A Al-Shamma'a, "Preliminary investigations into the use of low pressure gas discharges in microwave electric field optical sensor probes", Proceedings of the XIV International Conference on Gas Discharges and their Applications, Vol. 2, ISBN 0-9539105-1-2, Liverpool, UK, 2nd- 6th September 2002, pp 72-75.

P. Mavromatidis, A. Al-Shamma'a, J. Lucas, "High Velocity Thermal Spraying using 2.45GHz Microwave Plasma", 16th International Symposium on Plasma Chemistry, Taormina Italy, 22-27 June 2003, ISBN 3-527-40487-2.

P. Mavromatidis, C. Fitzpatrick, A. Al-Shamma'a, J. Lucas, "Sensing of the Microwave High Velocity Thermal Spraying", Sensors and their Applications XII conference, Limerick, Ireland, September 2003, ISBN 0-7503-0978-4, pp 365-370.

P. Mavromatidis , A. Shaw, A.I. Al-Shamma'a , J. Lucas , W. Lucas, "2.45 GHz Microwave Plasma System for High Velocity Thermal Spraying", Proceedings of the International Conference on Advances in Materials and Processing technologies, AMPT 2003, ISBN 1-8723-2739-7, vol. 1, pp 61-64.

P. Mavromatidis, I. Makraki, A. I. Al-Shamma'a, J. Lucas, W. Lucas, "The realisation of a microwave spray control system", Proceedings of 14th International Conference on Computer Technology in Welding and Manufacturing, ISBN 1-903761-03-4, Sheffield, UK, 15-17 June 2004.

P. Mavromatidis, M. Houghton, A.I. Al-Shamma'a, J. Lucas, "Thermal Spray Technology Using Microwaves", 17th International Symposium in Plasma Chemistry, Toronto, Canada, August 2005.

A.I. Al-Shamma'a, P. Mavromatidis, J. Lucas, W. Lucas, "Microwave Plasma at Atmospheric Pressure for Thermal Spray Technology", Presented at the 29th IEEE International Conference on Plasma Science, Banff, Alberta, Canada, May 26-30, 2002.

A. Shaw, P. Mavromatidis, A.I. Al-Shamma'a, H.Al-Badairy, "Thermal Spray Technology Using Microwaves for Metal Composites", Second International Conference on Applications of Traditional and High-Performance Materials in Harsh Environments, American University of Sharjah, March 20-21 2006.

P. Mavromatidis, J. Lucas, "Modelling and testing of dielectric heat source designs for the microwave thermal spraying process", Proceedings of 16th International Conference on Computer Technology in Welding and Manufacturing, ISBN 966-8872-05-3, Kiev, Ukraine, 6-8 June 2006.

P. Mavromatidis, M. Houghton, W. Lucas, "Application of a PLC for the Microwave Superheated Water Cleaning System." Proceedings of 17th International Conference on Computer Technology in Welding and Manufacturing, ISBN 13-978-1-903761-07-6, Cranfield, UK, 18-19 July 2008.

Pavlos Mavromatidis, Andreas Kanarachos, "Design of an Innovative Acoustic Material" WSEAS Transactions on Acoustics and Music, Volume 3, 2016

Pavlos Mavromatidis, Andreas Kanarachos, A study of wheel force measurement using strain gauge equipped wheels", International Journal of Instrumentation and Measurement, Volume 1, 20016.