

**PROFILE**

**Assistant Professor of Power Electronics and Motor Drives, with long (> 12 years) industrial R&D experience on the design and control of high-power motor drives.**



**1 CURRICULUM VITAE**

PERSONAL INFORMATION	
<b>SURNAME</b>	ORFANOUDAKIS
<b>NAME</b>	GEORGIOS
<b>e-mail</b>	<a href="mailto:GORFAS@HMU.GR">GORFAS@HMU.GR</a>

CURRENT POSITION	
<b>2/2020 – present</b>	<b>Assistant Professor of Power Electronics and Motor Drives</b> Electrical and Computer Engineering Department, Hellenic Mediterranean University, Greece
<b>2015 – present</b>	<b>R&amp;D consultant on Power Electronics and Motor Drives</b> TSL Technology Ltd, UK

PREVIOUS POSITIONS	
<b>2012 – 2014</b>	<b>Research Associate in Knowledge Transfer Partnership (KTP) on Power Electronics and Motor Drives</b> Electronics and Computer Science Department, University of Southampton, UK & TSL Technology Ltd, UK

EDUCATION	
<b>2008 – 2012</b>	<p>Faculty of Engineering and the Environment, University of Southampton, UK</p> <p><b>PhD</b> on Power Electronic Converters</p> <p>Thesis: Analysis and reduction of DC-link capacitor voltage/current stress in three-level PWM converters</p>
<b>2007 – 2008</b>	<p>Faculty of Engineering and the Environment, University of Southampton, UK</p> <p><b>MSc</b> on Sustainable energy technologies (Grade: Distinction)</p> <p>Thesis: Analysis of solar radiation for PV applications</p>
<b>2000 – 2007</b>	<p>School of Electrical and Computer Engineering, National Technical University of Athens, Greece</p> <p><b>MEng (Diploma)</b> (Grade: 8.36/10)</p> <p>Thesis: Implementation of query translation mechanism for Peer-to-Peer databases</p>

SKILLS	
<b>Power electronic converters design</b>	<ul style="list-style-type: none"> <li>• Selection of semiconductors and gate drivers</li> <li>• Sizing and selection of filter inductors and capacitors</li> <li>• Loss estimation and cooling</li> <li>• Electronics design (isolation, measurement, protection circuits, etc)</li> </ul>
<b>Power converter and controller simulations, RCP and HIL</b>	<ul style="list-style-type: none"> <li>• Proficiency in converter and controller simulations in MATLAB/Simulink</li> <li>• Experience with Typhoon HIL and PLECS simulators</li> <li>• Experience with TI C2000 MCU series for Rapid Control Prototyping (RCP) using Simulink Embedded Coder</li> <li>• Experience with Typhoon HIL equipment and toolchain for embedded controller validation</li> <li>• Experience with algorithm implementation in embedded C code</li> </ul>
<b>Advanced topologies, modulation techniques and control studies</b>	<ul style="list-style-type: none"> <li>• See Section 2-C</li> </ul>
<b>Power quality studies</b>	<ul style="list-style-type: none"> <li>• Analysis and mitigation of voltage distortions/disturbances (harmonics, notches, asymmetry, etc)</li> <li>• EMC studies</li> </ul>
<b>Circuit design and layout</b>	<ul style="list-style-type: none"> <li>• Experience with EDA software</li> </ul>
<b>Soft skills</b>	<ul style="list-style-type: none"> <li>• Proven organizational and management skills</li> <li>• High initiative and creativity, and strong problem-solving skills</li> <li>• Cultivated team-working and interpersonal skills</li> <li>• Excellent communication, presentation and technical documentation-reporting skills</li> </ul>

**PUBLISHED BOOK CHAPTERS**

S. M. Sharkh, M. A. Abu-Sara, G. I. Orfanoudakis, and B. Hussain, "Power Electronic Converters for Microgrids", John Wiley & Sons, ISBN 978-0-470-82403-0, May 2014.

**JOURNAL PUBLICATIONS**

1. L. K. Pittala, A. Chub, G. I. Orfanoudakis, A. Kuperman, M. Ricco and R. Mandrioli, "Active Power Sharing Control in Asymmetrical Bidirectional DC/DC Converter," in *IEEE Open Journal of Power Electronics*, vol. 6, pp. 1980-1990, 2025, doi: 10.1109/OJPEL.2025.3630546
2. E. E. Pompodakis and G. I. Orfanoudakis, "Efficient integration of buck converter into an active rectifier for DC-fault current limitation in DC networks," *e-Prime – Adv. Electr. Eng., Electron. Energy*, vol. 13, p. 101053, 2025
3. E. E. Pompodakis, G. I. Orfanoudakis and T. A. Papadopoulos, "Communication-Free Protection Scheme With Improved Selectivity and Backup Reliability for Ring DC Networks," in *IEEE Access*, vol. 13, pp. 109579-109592, 2025
4. G. I. Orfanoudakis, E. Koutroulis, G. Foteinopoulos and W. Wu, "Analysis and Reduction of Common-Mode Ground Leakage Current for Transformerless PV Inverters with Rectified Sinewave DC-link Voltage," in *Springer Journal of Power Electronics*, June 2025. doi: 10.1007/s43236-025-01106-1
5. E. Pompodakis, G. I. Orfanoudakis, G. Katsigiannis, A. Tsikalakis, and E. Karapidakis, "A novel power flow approach for calculating the steady-state of secondary control in islanded microgrids under cyberattacks," in *Sustainable Energy, Grids and Networks*, vol. 42, p. 101646, 2025
6. A. Abramovitz, M. Shvartsas, G. I. Orfanoudakis and A. Kuperman, "Performance Assessment of Clamped-On Passive Magnetic Energy Harvester Matched to a Constant Voltage Load under Wide Range of Primary Currents," in *IEEE Transactions on Aerospace and Electronic Systems*, Feb. 2025
7. E. Pompodakis, A. Ahmed, C. Condaxakis, G. I. Orfanoudakis, and E. Karapidakis, "Paving the way toward hydrogen mobility: An effective policy to reduce the green hydrogen cost," in *International Journal of Hydrogen Energy*, vol. 100, pp. 417–427, 2025
8. T. Christos, E. Pompodakis, and G. I. Orfanoudakis, "Techno-economic feasibility of fuel cell vehicle-to-grid fast frequency control in non-interconnected islands," in *Hydrogen*, vol. 6, p. 1, 2025
9. G. I. Orfanoudakis, G. Foteinopoulos, E. Koutroulis and W. Wu, "Dynamic Self-Reconfiguration of a Buck-Boost PV Inverter for Maximum Energy Harvesting," in *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. 72, no. 5, pp. 2408-2418, May 2025
10. A. Abramovitz, M. Shvartsas, G. I. Orfanoudakis and A. Kuperman, "Output Characteristics of Passive Magnetic Energy Harvester Feeding a Constant-Voltage-Type Load," in *IEEE Journal of Emerging and Selected Topics in Power Electronics*, doi: 10.1109/JESTPE.2024.3476284
11. E. Pompodakis, G. I. Orfanoudakis, Y. Katsigiannis, and E. Karapidakis, "Techno-economic feasibility analysis of an offshore wave power facility in the Aegean Sea, Greece," *Energies*, vol. 17, no. 18, p. 4588, 2024.
12. E. Pompodakis, A. Ahmed, G. I. Orfanoudakis, and E. Karapidakis, "Optimization of residential hydrogen facilities with waste heat recovery: Economic feasibility across various European cities," in *Processes*, vol. 12, no. 9, p. 1933, 2024
13. E. Pompodakis, G. I. Orfanoudakis, Y. Katsigiannis, and E. Karapidakis, "Hydrogen production from wave power farms to refuel hydrogen-powered ships in the Mediterranean Sea," in *Hydrogen*, vol. 5, no. 3, pp. 494–518, 2024.
14. E. Pompodakis, G. I. Orfanoudakis, Y. Katsigiannis, and E. Karapidakis, "Robust secondary controller for islanded microgrids with unexpected electrical partitions under fault conditions," in *Energies*, vol. 17, no. 15, p. 3727, 2024
15. G. I. Orfanoudakis, E. Lioudakis, G. Foteinopoulos, E. Koutroulis and W. Wu, "Dynamic Global Maximum Power Point Tracking for Partially Shaded PV Arrays in Grid-Connected PV Systems," in *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, vol. 5, no. 4, pp. 1481-1492, Oct. 2024.

16. G. I. Orfanoudakis, M. A. Yuratich and S. M. Sharkh, "Current balancing of scalar-controlled induction motors with long imbalanced cables for artificial lift systems," in *e-Prime - Advances in Electrical Engineering, Electronics and Energy*, vol. 7, 2024, 100391, ISSN 2772-6711, doi.org/10.1016/j.prime.2023.100391.
17. G. I. Orfanoudakis, E. Koutroulis, S. M. Sharkh and M. A. Yuratich, "An Extended Boost Three-Phase Transformerless PV Inverter for Common-Mode Leakage Current Reduction," in *IEEE Transactions on Industry Applications* (early access), doi: 10.1109/TIA.2023.3322692.
18. G. I. Orfanoudakis, S. M. Sharkh and M. A. Yuratich, "Combined Positive-Sequence Flux Estimation and Current Balancing for Sensorless Motor Control Under Imbalanced Conditions," in *IEEE Transactions on Industry Applications*, vol. 57, no. 5, pp. 5099-5107, Sept.-Oct. 2021, doi: 10.1109/TIA.2021.3093253.
19. G. I. Orfanoudakis, M. A. Yuratich and S. M. Sharkh, "Nearest-Vector Modulation Strategies with Minimum Amplitude of Low-Frequency Neutral-Point Voltage Oscillations for the Neutral-Point-Clamped Converter", *IEEE Transactions on Power Electronics*, vol. 28, no. 10, pp. 4485-4499, Oct. 2013, doi: 10.1109/TPEL.2012.2236686.
20. G. I. Orfanoudakis, M. A. Yuratich and S. M. Sharkh, "Hybrid Modulation Strategies for Eliminating the Low-Frequency Neutral-Point Voltage Oscillations in the Neutral-Point-Clamped Converter", *IEEE Transactions on Power Electronics*, vol. 28, no. 8, pp. 3653-3658, Aug. 2013, doi: 10.1109/TPEL.2012.2231883.
21. G. I. Orfanoudakis, M. A. Yuratich and S. M. Sharkh, "Analysis of DC-link Capacitor Current in Three-Level Neutral-Point-Clamped and Cascaded H-Bridge Inverters", *IET Power Electronics*, vol. 6, no. 7, pp. 1376-1389, Aug. 2013, doi: 10.1049/iet-pel.2012.0422.

**CONFERENCE PUBLICATIONS**

1. V. F. Pires, A. Cordeiro, D. Foito, G. I. Orfanoudakis and J. Monteiro, "DC-DC Converter with Wider Static Voltage Gain Based on Differential Connections", *International Conference on Renewable Energy Research and Applications (ICRERA)*, 2025
2. A. Vulfovich, G. I. Orfanoudakis, M. Mellincovsky, S. N. Banavath, R. Mandrioli and A. Kuperman, "Attaining Arbitrary Load Independent Voltage Gain and Minimizing Inverter VA Rating in S(C)-S(C) Compensated Wireless Power Transfer Links", *51<sup>st</sup> Annual Conference of the IEEE Industrial Electronics Society (IECON)*, 2025.
3. E. E. Pompodakis, G. I. Orfanoudakis and A. Ahmed, "Addressing EV-Induced Undervoltage: Implementing Series Compensation to Enhance the Effectiveness of Reactive Power Support", *IEEE Electrical Power and Energy Conference (EPEC)*, 2025
4. G. Orfanoudakis, G. Kotoulas, E. Pompodakis, and A. Kuperman, "A simplified modular multilevel step-down DC/DC converter for medium to high-voltage applications," in *Proc. 7th Int. Conf. DC Microgrids (ICDCM)*, in *2025 IEEE Seventh International Conference on DC Microgrids (ICDCM)*, Tallinn, Estonia, Jun. 4–6, 2025
5. G. Orfanoudakis, E. Pompodakis, and A. Kuperman, "A modified DC-link structure for PWM motor drives to eliminate common-mode leakage and bearing currents," in *2025 IEEE Seventh International Conference on DC Microgrids (ICDCM)*, Tallinn, Estonia, Jun. 4–6, 2025
6. A. Levhar, A. Belenky, M. Sitbon, G. Orfanoudakis, R. Mandrioli, and A. Kuperman, "Battery-integrated dual-winding magnetic energy harvester supplying a constant power DC load," in *2025 IEEE Seventh International Conference on DC Microgrids (ICDCM)*, Tallinn, Estonia, Jun. 4–6, 2025
7. H. D. Wahyudi, K.-P. Liu, R. Yang, G. Orfanoudakis, R. Wills, A. Cruden, and S. M. Sharkh, "Online battery EIS using cell voltage balancing circuit and PRBS excitation," in *Proc. UK and World Energy Storage Conf.*, Sheffield, U.K., Apr. 14–17, 2025
8. K.-P. Liu, G. Orfanoudakis, A. Cruden and S. M. Sharkh, "Online Broadband Electrochemical Impedance Spectroscopy within Direct Power Control of a Neutral Point Clamped Inverter," *2024 IEEE International Conference on Electrical Systems for Aircraft, Railway, Ship Propulsion and Road Vehicles & International Transportation Electrification Conference (ESARS-ITEC)*, Naples, Italy, 2024, pp. 1-6
9. E. E. Pompodakis, G. I. Orfanoudakis, G. Katsigiannis and E. Karapidakis, "Understanding the Steady-State Impacts of Communication Dysfunctions on the Consensus Secondary Control of Islanded Microgrids," *2024 59th International Universities Power Engineering Conference (UPEC)*, Cardiff, United Kingdom, 2024, pp. 1-6
10. A. Paspatis, B. Adebisi, G. Orfanoudakis, K. Siderakis, E. Karapidakis and N. Hatziaargyriou, "A DC Link-Based Approach to Realize Zero Feed-in Under Both Static and Dynamic Power System Events," *2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG)*, Gdynia, Poland, 2024, pp. 1-6
11. K.-P. Liu, G. Orfanoudakis, S. M. Sharkh and A. Cruden, "Optimised Online Multi-Sine Battery Electrochemical Impedance Spectroscopy using a Three-Phase Neutral Point Clamped Converter," *2023 IEEE 14th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED)*, Chania, Greece, 2023, pp. 606-612, doi: 10.1109/SDEMPED54949.2023.10271462.
12. K. Liu, G. I. Orfanoudakis, S. M. Sharkh and A. J. Cruden, "Online Battery Pack Electrochemical Impedance Spectroscopy Measurement Using a Three-Phase Neutral Point Clamped Converter," *2023 International Conference on Clean Electrical Power (ICCEP)*, Terrasini, Italy, 2023, pp. 63-69, doi: 10.1109/ICCEP57914.2023.10247461.

13. G. I. Orfanoudakis, M. A. Yuratich and S. M. Sharkh, "Current balancing of scalar-controlled induction motors with imbalanced cables," Accepted for publication in 14th Seminar on Power Electronics and Control (SEPOC 2022), Santa Maria, Brazil, Nov. 12-15, 2022.
14. G. I. Orfanoudakis and A. G. Paspatis, "Power Electronics Laboratory Projects Enhance Interdisciplinary Engineering Education," Accepted for publication (after improvements in figures) in 14th Seminar on Power Electronics and Control (SEPOC 2022), Santa Maria, Brazil, Nov. 12-15, 2022.
15. G. I. Orfanoudakis, E. Koutroulis, G. Foteinopoulos and W. Wu, "Evaluation of common-mode leakage current of Aalborg-type transformerless PV inverters," 24th European Conference on Power Electronics and Applications (EPE'22 ECCE Europe), Hannover, Germany, 2022, pp. 1-10.
16. G. I. Orfanoudakis, G. Foteinopoulos, E. Koutroulis and W. Wu, "Design optimization of Aalborg-type transformerless PV inverters with focus on power quality," 2022 11th International Conference on Modern Circuits and Systems Technologies (MOCAST), 2022, pp. 1-5.
17. G. I. Orfanoudakis, E. Koutroulis, G. Foteinopoulos and W. Wu, "Synchronous Reference Frame current control of Aalborg-type PV inverters," 23rd European Conference on Power Electronics and Applications (EPE'21 ECCE Europe), 2021, pp. 1-10.
18. G. I. Orfanoudakis, E. Koutroulis and G. Foteinopoulos, "The role of diodes in the leakage current suppression mechanism of decoupling transformerless PV inverter topologies," 10th International Conference on Modern Circuits and Systems Technologies (MOCAST), 2021, pp. 1-4.
19. G. I. Orfanoudakis, E. Koutroulis, M. A. Yuratich and S. M. Sharkh, "A three-phase transformerless Boost inverter for the reduction of common-mode leakage current in photovoltaic applications," 2021 23rd European Conference on Power Electronics and Applications (EPE'21 ECCE Europe), 2021, pp. 1-10.
20. G. I. Orfanoudakis, E. Koutroulis, S. M. Sharkh and M. A. Yuratich, "Extended Boost PV inverter topology for the reduction of common-mode leakage current in three-phase applications", 22nd European Conference on Power Electronics and Applications (EPE'20 ECCE Europe), Lyon, France, 2020, pp. 1-10.
21. G. I. Orfanoudakis, S. M. Sharkh and M. A. Yuratich, "Positive-sequence flux estimator based on Second-Order Generalized Integrators for grid synchronization and motor control under imbalanced conditions", 21st European Conference on Power Electronics and Applications (EPE '19 ECCE Europe), Genova, Italy, 2019, pp. 1–10.
22. G. I. Orfanoudakis, E. Koutroulis, S. M. Sharkh and M. A. Yuratich, "Single-phase transformerless PV inverter topology with ac bypass and mid dc-link voltage clamping", 19th European Conference on Power Electronics and Applications (EPE 2017), 11–14 September 2017, Warsaw, Poland.
23. D. Papastefanakis, G. Orfanoudakis and K. Siderakis, "Designing the grid protections to accommodate distributed generation", 11th International Conference on Deregulated Electricity Market Issues in South Eastern Europe (DEMSEE'16), 22-23 September 2016, Heraklion, Crete, Greece.
24. V. Kantere, G. Orfanoudakis, A. Kementsietsidis, and T. Sellis, "Query Relaxation across Heterogeneous Data Sources", 24th ACM International Conference on Information and Knowledge Management (CIKM '15). 2015. ACM, New York, NY, USA, 473-482.
25. G. I. Orfanoudakis, S. M. Sharkh and M. A. Yuratich, "Capacitor size reduction for multiple inverter systems", IET Conference on Renewable Power Generation (RPG 2011), 6 – 8 September 2011.
26. G. I. Orfanoudakis, S. M. Sharkh and M. A. Yuratich, "Circuit for reducing devices voltage stress due to DC-link capacitor voltage ripple in a Neutral-Point-Clamped inverter", 14th European Conference on Power Electronics and Applications (EPE 2011), 30 August – 1 September 2011.
27. G. I. Orfanoudakis, S. M. Sharkh and M. A. Yuratich, "Analysis of DC-link capacitor losses in three-level neutral-point-clamped and cascaded H-bridge voltage source inverters", IEEE International Symposium on Industrial Electronics (ISIE 2010), 4 – 7 July 2010.

28. G. I. Orfanoudakis, S. M. Sharkh, M. A. Yuratich and M. A. Abu-Sara, “Loss comparison of two- and three-level inverter topologies”, 5th IET International Conference on Power Electronics, Machines and Drives (PEMD 2010), 19 – 21 April 2010.

#### PATENTS

<b>10/2024</b>	Reconfigurable electronic dc to ac power converter powered by a photovoltaic array (EP4447301A1)
<b>7/2023</b>	Apparatus and methods to control electric motors (US 11705846 B2)
<b>11/2022</b>	Method and system for controlling downhole pumping systems (US 11506195 B2)
<b>3/2022</b>	SOGI-based integrator, PLL and current controller for grid connection and motor control (US 11289908 B2)
<b>6/2021</b>	Method and system for controlling downhole pumping systems (US 11035209 B2)
<b>9/2019</b>	Method and system for monitoring the condition of rotating systems (WO 2019/147750 A2) [Pending]

#### MEMBERSHIPS & REVIEWING ACTIVITIES

<b>2014 – present</b>	Member of IEEE and IEEE Power Electronics (PELS), Industry Applications (IAS) and Industrial Electronics (IES) societies and Humanitarian Activities Committee (HAC)
<b>2007 – 2024</b>	Member of Technical Chamber of Greece (TCG/TEE)
<b>2014 – 2024</b>	Evaluator (reviewer) for IEEE Transactions on Power Electronics, IEEE Transactions on Industry Applications, IEEE Transactions on Industrial Electronics, IEEE Transactions on Energy Conversion, IET Power Electronics, MDPI World Electric Vehicle Journal

#### TEACHING ACTIVITIES

<b>2020 – present</b>	<b>Assistant Professor</b> , Hellenic Mediterranean University, Greece Power Electronics (7 <sup>th</sup> semester), Electric Machines I (7 <sup>th</sup> semester), Electric Machines II (8 <sup>th</sup> semester), Electric Motor Drives (9 <sup>th</sup> semester), Power Systems Coupling and Power Electronics (MSc), Electrical Energy Measurement and Power Quality (MSc)
<b>2015 – 2019</b>	<b>Scientific Associate</b> , Technological Educational Institute of Crete, Greece Power Electronics (5 <sup>th</sup> semester) and Electric Motor Drives (6 <sup>th</sup> semester)
<b>2017</b>	<b>Scientific Associate</b> , Technological Educational Institute of Crete, Greece Power Electronics and Interconnections (MSc)
<b>2016</b>	<b>Scientific Associate</b> , Technological Educational Institute of Crete, Greece Electric Machines II laboratory (6 <sup>th</sup> semester)
<b>2015</b>	<b>Scientific Associate</b> , Technological Educational Institute of Crete, Greece Electric Machines I laboratory (5 <sup>th</sup> semester)

SUPERVISION OF GRADUATE STUDENTS	
<b>10/2023 – present</b>	1 PhD candidate (in progress) – Role: Main supervisor <i>Design and development of novel electronic devices for the electrical characterization and power conversion in emerging technologies</i> Hellenic Mediterranean University
<b>10/2023 – present</b>	1 PhD candidate (in progress) – Role: Co-supervisor <i>Long term stability and aging study of small-and large-scale emerging PV technologies in lab and outdoor conditions</i> Hellenic Mediterranean University
<b>2022 – present</b>	2 PhD candidates (in progress) – Role: External supervisor 1. <i>In-situ EIS and Management of a Grid Connected Battery using an NPC Inverter</i> 2. <i>Power converters for hybrid energy storage</i> University of Southampton, UK
<b>2018 – present</b>	4 MSc students (2 completed, 2 in progress) – Role: Main supervisor 1. <i>Design of three-phase grid-connected inverter and performance study during grid faults</i> 2. <i>Overview of technology and legislative framework of charging stations for electric cars – Directions for the installation in the HMU</i> 3. <i>Study of renewable energy management and storage scenarios</i> 4. <i>Design and implementation of a multilevel DC/DC step-up converter</i> Hellenic Mediterranean University, Greece
<b>2018 – present</b>	Main supervisor for 20 undergraduate final-year theses to completion, with 6 more being in progress.

FELLOWSHIPS and AWARDS	
<b>2014 – present</b>	Visiting Research Fellow, Electronics and Computer Science Department, University of Southampton, UK
<b>2008 – 2012</b>	PhD scholarship, Faculty of Engineering and the Environment, University of Southampton and Physical Sciences Research Council (EPSRC), UK.
<b>2007 – 2008</b>	MSc Scholarship (Lanchester Scholarship), University of Southampton, UK

CERTIFICATIONS	
<b>2013</b>	PRINCE2 Project Management Practitioner by APMG, UK
<b>2013</b>	Management training by Ashorne Hill, Chartered Management Institute (CMI), UK

<b>RESEARCH GRANTS</b>			
<b>Project Title</b>	<b>Funding source</b>	<b>Period</b>	<b>Role of the PI</b>
Design and control of variable-speed drives for oil and water pumping applications	TSL Technology Ltd, UK	5/2025 – 5/2026	PI, Coordinator
Enhancing resilience of Cretan power system using distributed energy resources (CResDER)	2nd Call for H.F.R.I. Research Projects to support Faculty Members and Researchers	1/2022 – 7/2024	Research Associate
Principle and control of high-efficiency Buck-Boost type Photovoltaic inverter (eSOLAR)	Bilateral and Multilateral Research & Technology Co-operation between Greece and China	4/2020 – 10/2023	Research Associate, responsible for research on modern PV inverter control, as well as for design and implementation of experimental prototypes
Incorporating advanced features in variable-speed drives for permanent-magnet and induction motors	TSL Technology Ltd, UK (Pending IP agreement)	1/2024 – 1/2025	PI, Coordinator
Research and development on variable-speed drives for permanent magnet and induction motors	TSL Technology Ltd, UK	10/2022 – 10/2023	PI, Coordinator
Research and development on variable-speed drives for permanent magnet motors	TSL Technology Ltd, UK	9/2021 – 9/2022	PI, Coordinator
Research and development on variable-speed motor drives	TSL Technology Ltd, UK	9/2020 – 9/2021	PI, Coordinator

<b>LANGUAGES</b>	
<b>English</b>	Fluent, Full proficiency (lived in the UK 2007 – 2014) <ul style="list-style-type: none"> <li>• TOEFL (score 107/120)</li> <li>• Certificate of Proficiency in English (CPE), University of Cambridge</li> <li>• Certificate of Proficiency in English (CPE), University of Michigan</li> </ul>
<b>French</b>	Semi-fluent <ul style="list-style-type: none"> <li>• DELF1 (A1, A2, A3, A4)</li> <li>• DELF2 (A5, A6)</li> </ul>
<b>Greek</b>	Native