

CURRICULUM VITAE	
NAME AND SURNAME:	Ph.D. Eng. Piotr Kuwałek
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EDUCATION:	<p><b>2018-2022</b> – Ph.D. studies at the Faculty of Control, Robotics and Electrical Engineering (formerly Electrical Engineering) of the Poznan University of Technology – „ Modern electrical and information engineering”</p> <p><b>2018-2020</b> - Postgraduate studies at the Faculty of Management Engineering at the Poznan University of Technology - "Educational preparation for teaching general and technical-vocational subjects"</p> <p><b>2017-2018</b> – M.Sc. Eng. studies at the Faculty of Electrical Engineering at the Poznan University of Technology - "Electrical Engineering", specialization "Measurement systems in industry and biomedical engineering"</p> <p><b>2015-2018</b> – B.Sc. studies at the Faculty of Electrical Engineering at the Poznan University of Technology - "Mathematics", specialization "Mathematical modeling"</p> <p><b>2013-2017</b> – Eng. studies at the Faculty of Electrical Engineering at the Poznan University of Technology - "Electrical Engineering", specialization "Measurement systems in industry and biomedical engineering"</p>
SCIENTIFIC INDICATORS:	<p>- Hirsch Index: 10 (WoS) / 11 (Scopus) / 12 (GoogleScholar)</p> <p>- Total Citations: 137 (WoS) / 273 (Scopus) / 350 (GoogleScholar)</p> <p>- Total Impact Factor: 88,444</p>
LIST OF SCIENTIFIC PUBLICATIONS:	<p>- <b>Kuwałek P.</b>, Bracale A., Sikorski T., Rezmer J., Synchronized Approach Based on Empirical Fourier Decomposition for Accurate Assessment of Harmonics and Specific Supraharmonics, <i>IEEE Transactions on Industrial Electronics</i>, vol. 72, no. 1, pp. 992-1002, 2025 (<b>IF = 7,2</b>).</p> <p>- <b>Kuwałek P.</b>, Wiczyński G., Problem of Supraharmonic Diagnostics in Power Networks, <i>Electronics</i>, vol. 14, no. 8, art. no. 1609, 2025 (<b>IF = 2,6</b>).</p> <p>- Jędryczka C., <b>Kuwałek P.</b>, Wiczyński G., Diagnostics of Supraharmonics in Terms of Analysis of Electric Vehicle Charging, <i>IEEE Transactions on Industry Applications</i>, vol. 61, no. 2, pp. 3435-3446, 2025 (<b>IF = 4,5</b>).</p> <p>- Zych P., Filipek K., Mrozek-Czajkowski A., <b>Kuwałek P.</b>, Classification of Electroencephalography Motor Execution Signals Using a Hybrid Neural Network Based on Instantaneous Frequency and Amplitude Obtained via Empirical Wavelet Transform, <i>Sensors</i>, vol. 25, no. 11, art. no. 3284, 2025 (<b>IF = 3,5</b>).</p> <p>- <b>Kuwałek P.</b>, Wiczyński G., Impact of photovoltaic micro-installations on the low voltage grid – examples, <i>Electrical Engineering News</i>, no. 8, pp. 3-11, 2025.</p> <p>- <b>Kuwałek P.</b>, Bracale A., Caramia P., Carpinelli G., Power-Based Indices with Single Metering Sections for Responsibility Assessment of Disturbing Loads, <i>2025 International Conference on Clean Electrical Power (ICCEP)</i>, pp. 1008-1013, 2025, Italy, Villasimius.</p> <p>- Jukiewicz M., <b>Kuwałek P.</b>, Challenges in assessing flicker due to voltage fluctuations, <i>MKM 2025, LVII Inter-University Metrology Conference. Conference Materials</i>, Poznan University of Technology, pp. 167-184, 2025, Poland, Poznan.</p> <p>- Krawiec D., <b>Kuwałek P.</b>, Evaluation of voltage phasor measurement errors using Hilbert transform in the case of power quality disturbances, <i>MKM 2025, LVII Inter-University Metrology Conference. Conference Materials</i>, Poznan University of Technology, pp. 193-209, 2025, Poland, Poznan.</p> <p>- <b>Kuwałek P.</b>, Kruopis N., Detecting anomalies in the power grid based on measurement data from AMI meters, <i>Proceedings of the 10th Scientific and Technical Conference: Measurements and Diagnostics in Power Grids</i>, pp. 23-34, 2025, Poland, Dźwirzyno.</p> <p>- <b>Kuwałek P.</b>, Practical Verification of Diagnostic Capabilities of Methods for the Recreation of Voltage Fluctuations, <i>Electronics</i>, vol. 13, no. 16, art. no. 3272, 2024 (<b>IF = 2,6</b>).</p> <p>- <b>Kuwałek P.</b>, Decomposition by Approximation with Pulse Waves Allowing Further Research on Sources of Voltage Fluctuations, <i>IEEE Transactions on Industrial Electronics</i>, vol. 71, no. 5, pp. 5263-5273, 2024 (<b>IF = 7,2</b>).</p> <p>- <b>Kuwałek P.</b>, Wiczyński G., Multi-point method using effective demodulation and decomposition techniques allowing identification of disturbing loads in power grids, <i>Electric Power Systems Research</i>, vol. 231, art. no. 110335, 2024 (<b>IF = 4,2</b>).</p> <p>- <b>Kuwałek P.</b>, Wiczyński G., Laboratory Setup for Testing Low-Frequency Disturbances of Power Quality, <i>Proceedings of 18th International Conference on Compatibility, Power Electronics and Power Engineering</i>, IEEE, 2024, Poland, Gdynia.</p> <p>- <b>Kuwałek P.</b>, Assessment of Diagnostic Capabilities of Methods of Recreation of Voltage Fluctuations, <i>Proceedings of 18th International Conference on Compatibility, Power Electronics and Power Engineering</i>, IEEE, 2024, Poland, Gdynia.</p> <p>- Wiczyński G., <b>Kuwałek P.</b>, Impact of small photovoltaic installations on the low-voltage network - examples, <i>Proceedings of the 9th Scientific and Technical Conference: Measurements and Diagnostics in Power Grids</i>, pp. 51-60, 2024, Poland, Kołobrzeg.</p> <p>- <b>Kuwałek P.</b>, Wiczyński G., Preliminary Observations of Supraharmonics in Low Voltage Networks, <i>Proceedings of the 2023 IEEE International Conference on Energy Technologies for Future Grids</i>, IEEE, 2023, Australia, Wollongong.</p>

- Jędryczka C., **Kuwałek P.**, Wiczyński G., Power Quality Problem for Single-Phase Low-Voltage Charging of Electric Vehicles, *Proceedings of the 2023 IEEE International Conference on Energy Technologies for Future Grids*, IEEE, 2023, Australia, Wollongong.
- **Kuwałek P.**, Jęsko W., Speech Enhancement Based on Enhanced Empirical Wavelet Transform and Teager Energy Operator, *Electronics*, vol. 12, no. 14, art. no. 3167, 2023 (IF = 2.9).
- Dziarski K., Hulewicz A., **Kuwałek P.**, Wiczyński G., Methods of Measurement of Die Temperature of Semiconductor Elements: A Review, *Energies*, vol. 16, no. 6, art. no. 2559, 2023 (IF = 3,2).
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- **Kuwałek P.**, Wiczyński G., Monitoring Single-Phase LV Charging of Electric Vehicles, *Sensors*, vol. 23, no. 1, art. no. 141, 2023 (IF = 3,9).
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- **Kuwałek P.**, Decomposition Problem in Process of Selective Identification and Localization of Voltage Fluctuation Sources in Power Grids, *Proceedings of the 20th International Conference on Harmonics and Quality of Power*, IEEE, art. no. 43, 2022, Italy, Naples.
- **Kuwałek P.**, Wiczyński G., Problem of Total Harmonic Distortion Measurement Performed by Smart Energy Meters, *Measurement Science Review*, vol. 22, no. 1, pp. 1-10, 2022 (IF = 0,9).
- Dziarski K., Hulewicz A., **Kuwałek P.**, Wiczyński G., Methods of Measurement of Die Temperature of Semiconductor Elements: A Review, *Energies*, vol. 16 no. 6, art. no. 2559, 2023 (IF=3,2).
- **Kuwałek P.**, Wiczyński G., Monitoring Single-Phase LV Charging of Electric Vehicles, *Sensors*, vol. 23, no. 1, art. no. 141, 2023 (IF = 3,9).
- Wiczyński G., **Kuwałek P.**, Influence of Sampling Rate on Flicker Assessment by IEC Flickermeter Built-in AMI Energy Meters, *IEEE Transactions on Industrial Electronics*, vol. 69, no. 9, pp. 9566-9574, 2022 (IF = 7,7).
- **Kuwałek P.**, Wiczyński G., Problem of Total Harmonic Distortion Measurement Performed by Smart Energy Meters, *Measurement Science Review*, vol. 22, no. 1, pp. 1-10, 2022 (IF = 0,9).
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- **Kuwałek P.**, Comparison of the Estimation Errors of Parameters Associated With Individual Voltage Fluctuations Sources Using Selected Decomposition Methods, *Proceedings of the 13th International Conference on Measurement*, IEEE, pp. 93-96, 2021, Slovakia, Bratislava.
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- **Kuwałek P.**, Trace of Flicker Sources by Using Non-Parametric Statistical Analysis of Voltage Changes, *Proceedings of the 19th International Conference on Harmonics and Quality of Power*, IEEE, pp. 1-6, 2020, United Arab Emirates, Dubai.
- **Kuwałek P.**, Increase of Diagnostic Capabilities of Voltage Fluctuation Indices, *Proceedings of the 19th International Conference on Harmonics and Quality of Power*, IEEE, pp. 1-6, 2020, United Arab Emirates, Dubai.
- Chmielowiek K., **Kuwałek P.**, Wiczyński G., Application of AMI meters to power quality evaluation, *Proceedings of the 5th Scientific and Technical Conference: Measurements and Diagnostics in Power Grids*, art. no. 53, 2020, Poland, Kołobrzeg.

	<ul style="list-style-type: none"> <li>- <b>Kuwałek P.</b>, The Application of Kernel Density Estimation for Aided the Process of Locating Sources of Voltage Fluctuations, <i>Przegląd Elektrotechniczny</i>, vol. 95, no. 8, pp. 70-74, 2019.</li> <li>- <b>Kuwałek P.</b>, Otomański P., Effect of the Phenomenon of „Spectrum Leakage” on the Measurement of Power Quality Parameters, <i>Proceedings of the 12th International Conference on Measurement</i>, IEEE, pp. 70-73, 2019, Slovakia, Smolenice.</li> <li>- <b>Kuwałek P.</b>, Application of an enhanced empirical wavelet transform to determine selected parameters of sources of voltage fluctuations, <i>The Scientific Papers of Faculty of Electrical and Control Engineering. Gdansk University of Technology</i>, vol. 66, pp. 33-36, 2019.</li> <li>- Jęśko W., <b>Kuwałek P.</b>, The prototype of a wireless measurement card, <i>ITM Web of Conferences</i>, vol. 28, art. no. 01045, 2019.</li> <li>- <b>Kuwałek P.</b>, The problem of „spectrum leakage” in the measurement of harmonics, <i>ITM Web of Conferences</i>, vol. 28, art. no. 01044, 2019.</li> <li>- <b>Kuwałek P.</b>, The problem of „leakage spectrum” in the process of power quality evaluation, <i>Poznan University of Technology Academic Journals. Electrical Engineering</i>, vol. 97, pp. 63-73, 2019.</li> <li>- Jęśko W., <b>Kuwałek P.</b>, Wireless network measurement card, <i>Poznan University of Technology Academic Journals. Electrical Engineering</i>, vol. 100, pp. 19-28, 2019.</li> <li>- Otomański P., <b>Kuwałek P.</b>, Application of Fourier series to determine the measurements error of harmonics with selected power quality analyzers, <i>Proceedings of the 11th International Conference on Measurement</i>, IEEE, pp. 15-18, 2017, Slovakia, Smolenice.</li> <li>- <b>Kuwałek P.</b>, Otomański P., The influence of signal RMS value on measuring accuracy harmonics contents, <i>Poznan University of Technology Academic Journals. Electrical Engineering</i>, vol. 90, pp. 213-221, 2017.</li> </ul>
LIST OF SCIENTIFIC PROJECTS:	<ul style="list-style-type: none"> <li>- Project Sonata 20 "Proper metrological verification of smart energy meters" (2024/55/D/ST7/00441) financed by the National Science Centre (NCN); role: <b>project leader</b>; completion date: in progress.</li> <li>- "Testing of selected measurement signals in electrical engineering - part II" (0212/SBAD/0573) by the Ministry of Education and Science; role: <b>project leader</b>; completion date: 2024.</li> <li>- Project Preludium 20 "Diagnostics of voltage fluctuations aimed at the identification and location of nuisance receivers in power grids" (2021/41/N/ST7/00397) financed by the National Science Center (NCN); role: <b>project leader</b>; completion date: 2025.</li> <li>- "Testing of selected measurement signals in electrical engineering - part I" (0212/SBAD/0573) by the Ministry of Education and Science; role: <b>project leader</b>; completion date: 2023.</li> <li>- "Increasing the possibilities of diagnostic techniques in electrical engineering by the use of advanced signal processing tools" (0212/SBAD/0541) financed by the Ministry of Education and Science; role: <b>project leader</b>; completion date: 2021.</li> <li>- " Investigation of the effect of recorded unsharpness thermogram on the uncertainty of thermovision temperature measurement" (0212/SBAD/0542) financed by the Ministry of Education and Science; role: contractor; completion date: 2021.</li> <li>- " Measurements of electrical and non-electrical quantities in the diagnostics of electrical, electronic and lighting systems" (0212/SBAD/0539) financed by the Ministry of Education and Science; role: contractor; completion date: 2021.</li> <li>- " Acquisition and processing of selected diagnostic signals" (0212/SBAD/0515) financed by the Ministry of Science and Higher Education; role: contractor; completion date: 2021.</li> <li>- " Increasing the diagnostic possibilities of voltage fluctuation indices" (0212/SBAD/0525) financed by the Ministry of Science and Higher Education; role: <b>project leader</b>; completion date: 2020.</li> <li>- Project e-Pionier I "Life functions monitoring system" (WG-POPC.03.03.00-00-0008/16-00) solving the problem entitled "Inefficient monitoring of detained persons" (55/08/2019/UD) financed by the National Center for Research and Development (NCBiR); role: contractor - <b>signal processing specialist</b>; completion date: 2020.</li> <li>- " Acquisition and processing of selected diagnostic signals" (04/42/SBAD/0487) financed by the Ministry of Science and Higher Education; role: contractor; completion date: 2020.</li> <li>- "Increasing the possibility of identification voltage fluctuation sources and reducing errors of higher harmonics measurements to improve power quality diagnostics" (04/42/SBAD/0493) financed by the Ministry of Science and Higher Education; role: <b>project leader</b>; completion date: 2019.</li> </ul>
LIST OF CERTIFICATES HELD:	<ul style="list-style-type: none"> <li>- Management and team work certificate „Competences as a key path to career”.</li> <li>- Certificate of ability to work in the interdisciplinary team „I am in the Team”.</li> <li>- ACERT certificate of English language proficiency - level B2.</li> </ul>
LIST OF CONFERENCES AS A SPEAKER:	<ul style="list-style-type: none"> <li>- 57th Inter-University Metrology Conference MKM'25, Poland, Poznan, 22-24.09.2025.</li> <li>- 2025 IEEE International Conference on Clean Electrical Power, Italy, Villasimius, 24-26.06.2025.</li> <li>- 10th Scientific and Technical Conference: Measurements and Diagnostics in Power Grids, Poland, Dźwirzyno, 27-28.05.2025.</li> <li>- 18th International Conference on Compatibility, Power Electronics and Power Engineering, Poland, Gdynia, 24-26.06.2024.</li> <li>- 9th Scientific and Technical Conference: Measurements and Diagnostics in Power Grids, Poland, Kołobrzeg, 11-12.06.2024.</li> </ul>

	<ul style="list-style-type: none"> <li>- 2023 IEEE International Conference on Energy Technologies for Future Grids, Australia, Wollongong, 03-06.12.2023.</li> <li>- 8th Scientific and Technical Conference: Measurements and Diagnostics in Power Grids, Poland, Kołobrzeg, 31.05-01.06.2023.</li> <li>- 20th International Conference on Harmonics and Quality of Power, Italy, Naples, 29.05-01.06.2022.</li> <li>- 6th Scientific and Technical Conference: Measurements and Diagnostics in Power Grids, Poland, Poznań, 16-17.06.2021.</li> <li>- 13th International Conference on Measurement, Slovakia, Bratislava, 17-19.05.2021.</li> <li>- 5th Scientific and Technical Conference: Measurements and Diagnostics in Power Grids, Poland, Kołobrzeg, 28-29.10.2020.</li> <li>- 19th International Conference on Harmonics and Quality of Power, United Arab Emirates, Dubai, 06-07.07.2020.</li> <li>- 12th International Conference on Measurement, Slovakia, Smolenice, 27-29.05.2019.</li> <li>- 24th Scientific Conference on Computer Applications in Electrical Engineering, Poland, Poznań, 15.04.2019.</li> <li>- 51th Inter-University Metrology Conference MKM'19, Poland, Opole-Moszna, 23-25.09.2019.</li> <li>- 11th International Conference on Measurement, Slovakia, Smolenice, 29-31.05.2017.</li> <li>- 22th Scientific Conference on Computer Applications in Electrical Engineering, Poland, Poznań, 10-11.04.2017.</li> </ul>
<p><b>LIST OF AWARDS:</b></p>	<ul style="list-style-type: none"> <li>- 2024: Main prize in the 21st edition of the ABB competition for a Ph.D. thesis.</li> <li>- 2023: Winner of the Young Promoter of Poland award in the category of scientific activity under the Honorary Patronage of the Spouse of the President of the Republic of Poland in 2023.</li> <li>- 2023: Financial distinction for the Ph.D. dissertation in the competition "Award of the City of Poznań for an outstanding doctoral thesis".</li> <li>- 2022: Winner of the scholarship of the Minister of Education and Science for outstanding young scientists in 2022.</li> <li>- 2022: Award of the Rector of Poznan University of Technology for outstanding achievements in scientific work for 2021.</li> <li>- 2022: Winner of the Poznań City Scholarships for young researchers in 2022.</li> <li>- 2022: Laureate of the main award of the Poznań Branch of the Polish Academy of Sciences for the best original creative work published in 2021.</li> <li>- 2021: Winner of the stipend START 2021 financed by the Foundation for Polish Science (45.2021).</li> <li>- 2021: Winner of the "Young Investigator Award" for the best oral presentation at the 13th International Conference on Measurement - MEASUREMENT 2021, Slovakia, Bratislava.</li> <li>- 2021: Award of the Rector of Poznan University of Technology for outstanding achievements in scientific work for 2020.</li> <li>- 2020: Laureate of the main award of the Poznań Branch of the Polish Academy of Sciences for the best original creative work published in 2019.</li> <li>- 2020: Award of the Rector of Poznan University of Technology for achievements in scientific work for 2019.</li> </ul>
<p><b>LIST OF REVIEWS:</b></p>	<ul style="list-style-type: none"> <li>- <i>Algorithms</i> - 3 reviews</li> <li>- <i>Applied Sciences</i> - 6 reviews</li> <li>- <i>Applied System Innovation</i> - 1 review</li> <li>- <i>Archives of Electrical Engineering</i> - 10 reviews</li> <li>- <i>Biomimetics</i> - 1 review</li> <li>- <i>EAI CCom 2021 - 2nd EAI International Conference on Computational Intelligence and Communications</i> - 5 reviews</li> <li>- <i>EAI CCom 2022 - 3rd EAI International Conference on Computational Intelligence and Communications</i> - 2 reviews</li> <li>- <i>Electric Power System Research</i> - 3 reviews</li> <li>- <i>Electronics</i> - 17 reviews</li> <li>- <i>Energies</i> - 38 reviews</li> <li>- <i>Entropy</i> - 2 reviews</li> <li>- <i>Fractal and Fractional</i> - 1 review</li> <li>- <i>IEEE Transactions on Automation Science and Engineering</i> - 2 reviews</li> <li>- <i>IEEE Transactions on Industrial Electronics</i> - 4 reviews</li> <li>- <i>IEEE Transactions on Power Delivery</i> - 1 review</li> <li>- <i>Information</i> - 1 review</li> <li>- <i>International Journal of Photoenergy</i> - 1 review</li> <li>- <i>Machines</i> - 3 reviews</li> <li>- <i>Mathematics</i> - 7 reviews</li> <li>- <i>Measurement</i> - 4 reviews</li> <li>- <i>Measurement Science Review</i> - 1 review</li> <li>- <i>Micromachines</i> - 3 reviews</li> <li>- <i>Processes</i> - 2 reviews</li> <li>- <i>Sensors</i> - 19 reviews</li> <li>- <i>Sustainability</i> - 7 reviews</li> <li>- <i>Symmetry</i> - 2 reviews</li> <li>- <i>Vehicles</i> - 2 reviews</li> </ul>

<b>MEMBERSHIPS:</b>	<ul style="list-style-type: none"> <li>- Membership of the Technical Committee of the Polish Committee for Standardization (<b>PKN</b>) for Electrical Measuring Instruments for the Measurement of Electromagnetic Quantities (<b>TC 71</b>) and for Electromagnetic Compatibility (<b>TC 104</b>).</li> <li>- Membership of the Institute of Electrical and Electronics Engineers (<b>IEEE</b>), section: Industrial Electronics Society (<b>IES</b>), Instrumentation and Measurement Society (<b>IMS</b>), Power and Energy Society (<b>PES</b>).</li> <li>- Membership of the <i>European Alliance for Innovation</i> (<b>EAI</b>).</li> <li>- Membership of the Technical Program Committee <b>EAI CICom 2021</b> - 2nd EAI International Conference on Computational Intelligence and Communications.</li> <li>- Membership of the Organizing Committee and Technical Program Committee <b>EAI CICom 2022</b> - 3rd EAI International Conference on Computational Intelligence and Communications.</li> </ul>
<b>WORK EXPERIENCE:</b>	<p>1. PERIOD OF EMPLOYMENT: (1) 10.2019-today (2) 04-09.2018, (3) 08-09.2017, (4) 08-09.2016, (5) 08-09.2015, (6) 07-08.2012, (7) seasonally: 2013-2016</p> <p>2. NAME OF THE WORKPLACE: (1) Poznan University of Technology (2) AmRest Holdings SE, (3) Tax Office in Drawsko Pomorskie, (4) Flow Technics Sp. z o.o., (5) Branch PKC Group – K-T-P Sp. z o.o., (6) SprintWerkt in Holland, (7) Bar przy Plaży</p> <p>3. NAME OF THE POSITION HELD: (1) Assistant Professor, (2) Instructor, (3) Apprentice, (4) Automation Engineer, (5) Product Engineer, (6) Chief Production Assistant, (7) Manager</p> <p>4. SCOPE OF DUTIES AT THE HELD POSITION: (1) Conducting didactic classes and research activities, (2) Training and introducing new people, (3) Database management, (4) Constructing and programming automation and security systems using microcontrollers and PLC, (5) Creating construction documentation, modernization of finished products, work in interdisciplinary teams, (6) – Production process management, work in interdisciplinary teams, (7) – Bar and staff management, accounting and database services.</p>

*I agree to the processing of personal data provided in this document for realising the recruitment process pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation).*