



Curriculum Vitae

Personal information

Name & Surname		Michal Frivaldsky			
Department:		Department of mechatronics and electronics, Faculty of electrical engineering and information technologies			
Research group:		Power semiconductor systems			
Research group web-page:		https://kme.uniza.sk/oddelenie-elektroniky/			
Research rank		R4 – leading researcher			
Scientific identifiers					
ORCID:	0000-0001-6138-3103	WoS ID:	J-4668-2012	Scopus ID:	

Education

2021	Full professor, Faculty of electrical engineering and information technologies, UNIZA, Zilina, Slovakia
2013	Associate professor, Faculty of electrical engineering, UNIZA, Zilina, Slovakia
2009	PhD., Faculty of electrical engineering, UNIZA, Zilina, Slovakia
2006	MSc., Faculty of electrical engineering, UNIZA, Zilina, Slovakia

Current position

2024-now	Dean of the Faculty, Faculty of electrical engineering and information technologies, UNIZA
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Previous positions

2017-2024	Head of the department, Department of mechatronics and electronics, Faculty of electrical engineering, UNIZA, Zilina, Slovakia
2013-2016	Associate professor, Faculty of electrical engineering, UNIZA, Zilina, Slovakia
2009-2013	Research worker and project manager, Faculty of electrical engineering, UNIZA, Zilina, Slovakia
2007-2013	Application engineer, MACRO Components s.r.o
2006-2009	PhD. Study, Faculty of electrical engineering, UNIZA, Zilina, Slovakia

Scholarships

From 2013 - now	Uniersity degli studi di Catania, ITALY-Sicilia, ERASMUS+
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Awards

2012-2013	IEEE – IES best chapter activity award
2018	UNIZA Rector's Award for Publication Activity
2021	UNIZA Rector's Award for Outstanding Contribution to R&D
2020 and 2022	Best paper award ELEKTRO International conference

Students & post-docs supervisions

No. MSc. students	No. PhD. students	No. Post-docs
43	11	3

Organization of scientific meetings & conferences

From 2016 - now	ELEKTRO International conference, itinerant (technical/program committee)
From 2020 - now	EPNC Symposium, itinerant (technical/program committee)
From 2019 - now	EDPE conference, SLOVAKIA and CROATIA (technical/program committee)
From 2018 - now	Electronics, LITHUANIA, (technical/program committee)

* - conference chair, program, scientific, and organization committee chair applies

Institutional responsibilities

2020 - now	Guarantee of the bachelor's study (Electrical Engineering), Faculty of electrical engineering and information technologies, UNIZA, Zilina, Slovakia
2020 - now	Guarantee of the bachelor's study (Electrical Engineering), Faculty of electrical engineering and information technologies, UNIZA, Zilina, Slovakia
2018 - now	Head of the working group for PhD study, Faculty of electrical engineering and information technologies, UNIZA, Zilina, Slovakia

Editorial and reviewing activities

Lead journal editor	Member of editorial board of journal	No. journal reviews
	Member of the editorial board of the now defunct journal ELEN – Electrical Engineering, Archiv fur Elektrotechnik	25
	Member of the editorial board of Communications magazine	5

Membership in scientific societies

2025	IEEE, Senior member
2009 - now	IEEE, Industrial electronics society member

Principal investigator projects

Project name	Funding agency
Optimization of measurement for operating parameters of power semiconductor modules in the manufacturing process (2025 – 2028)	Slovak National Grant Agency for support of development and research (APVV)
Research into an advanced power system using supercapacitors (2024 – 2026)	Slovak National Grant Agency VEGA
SK6_12 Advanced electronics with supercaps (2022 – 2025)	European Space Agency ESA under program PECS_6
Research of methodologies to increase the quality and lifetime of hybrid power semiconductor modules (2021 – 2025)	Slovak National Grant Agency for support of development and research (APVV)
Innovative solutions for propulsion, energy and safety components of vehicles (2019 – 2023)	Long-term strategic research funds (European structural funds)
Research of possibilities for system optimization of wireless power systems (2018 – 2020)	Slovak National Grant Agency VEGA
Research of perspective highfrequency converter systems with GaN technology	Slovak National Grant Agency for support of development and research (APVV)

(2016 – 2020)	
Research of methodology for optimization of lifetime of critical components in perspective electronic appliances through the use of system level simulation. (2014 – 2016)	Slovak National Grant Agency VEGA

* - other project you were involved are excluded

Scientific collaborations

1 – West-Bohemian University, Pilsen, Czech Republic <i>Topic/Area: wireless power charging, power electronic systems</i>
2 – University degli studi di Catania, Catania, Italy <i>Topic/Area: Power semiconductor converters and devices</i>
3 – Kaunas University of Technology, Kaunas, Lithuania <i>Topic/Area: Electronics</i>

Publications

No. journal publications					No. conference publications	
<i>Q1</i>	<i>Q2</i>	<i>Q3</i>	<i>Q4</i>	<i>No-Q</i>	<i>Invited/Keynote</i>	<i>Contributed</i>
9	19	30	27		4	90