

# Prospective supervisor's form

Name of the supervisor:

Academic title:

Orcid ID number: <https://orcid.org/0002-9144-826X>

Gdańsk University of Technology Faculty of

Department of

Phone: +48

E-mail:

Personal web page: <https://pg.edu.pl/pchrzan>

Discipline<sup>1</sup>

Optional

Key words (obligatory four key words describing research interests / expertise):

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## Bibliometric indicators

1. Number of journal publications in WoS/ Scopus

2. Citations excluding self-citations WoS  Scopus

3. Hirsch index WoS  Scopus

1. The number of PhD students who have graduated under your supervision:

2. The number of PhD students currently supervised:

a. within the current doctoral school

b. within doctoral studies (previous system)

3. Are you currently accepting new PhD students:

a. Polish Yes/No

b. Foreign Yes/No

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Research interests or topics offered for PhD research (no more than 2000 characters)<sup>ii</sup>

Optimization design methods of power converters with reduced electromagnetic interference emission; Soft-commutated high-frequency power electronic converters; Reliability issues of power converteres for traction drives in low-emission transport

Funding or special equipment needed to carry out a PhD project <sup>iii</sup>:

1. Is funding available for experimental work: *Yes/No/not needed*

Yes

2. Is the equipment needed to complete a PhD project

available in your lab/department: *Yes/No/not needed*

Yes

Most important publications – no more than 5 published after 1.01.2018

No	Authors/title/journal	Number of points according to the current list of the Ministry of Science and Higher Education	Publication year
1.	Turzyński M., Chrzan P.J.: Resonant DC link inverters for AC motor drive systems – critical evaluation., Bulletin of the Polish Academy of Sciences Technical Sciences, vol. 67, no. 2, 2019, s. 241-252.	100	2019
2.	Kolincio M., Chrzan P.J., Musznicki P.: Multitransformer Primary-Side Regulated Flyback Converter for Supplying Isolated IGBT and MOSFET Drivers. IEEE Transactions on Industrial Electronics. vol. 67, no. 2, Feb 2020, s. 1005-1012	200	2020

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3.	Turzyński M., Chrzan P.J.: Reducing common mode voltage and bearing currents in quasi - resonant DC - link inverter. IEEE Transactions on Power Electronics. Early access paper DOI: 10.1109/tpel.2020.2969495	200	2020
4.	Derkacz P.B., Musznicki P., Chrzan P.J.: EMI Attenuation in a DC-DC buck converter using GaN HEMT. IEEE Journal of Emerging and Selected Topics in Power Electronics, Early access paper DOI: 10.1109/JESTPE.2020.2987638	140	2020
5.			

**Most recent externally funded projects you were involved in – no more than 3**

No	Project title, the name of the Principal Investigator (PI) and the institution the project was carried out	Years	Role in the project <sup>iv</sup>
1.	DORNA (Development of high reliability motor drives for next generation propulsion applications), Maria Skłodowska-Curie Actions – Research and Innovation Staff Exchange, 2020-2024	2020-24	R
2.			PI
3.			PI

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Additional relevant information – (no more than 1600 characters)<sup>v</sup>



- <sup>i</sup> You may select up to two disciplines out of 12 disciplines represented in the Doctoral School
- <sup>ii</sup> Observe the limit of not more than 2000 characters
- <sup>iii</sup> Leave only one answer
- <sup>iv</sup> Select the role in the project: PI stands for principal investigator (refers to the holder of an independent grant and the lead researcher for the grant project), Co-I for co-investigator (Co-I assists the principal investigator in the management and leadership of the research project), R for researcher
- <sup>v</sup> Add any other relevant information e.g. awards for PhD students whom you supervised (no more than 1600 characters)