

Prospective supervisor's form

Name of the supervisor: Bogdan Pankiewicz

Academic title: PhD with Habilitation

Orcid ID number: <https://orcid.org/0000-0001-6159-068X>

Gdańsk University of Technology Faculty of Electronics, Telecommunication and Informatics

Department of Microelectronic Systems

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Personal web page: <https://pg.edu.pl/www.ue.eti.pg.gda.pl/~bpa>

Discipline: control, electronic and electrical engineerin none

Optional

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

Analogue circuits

CMOS

Digital Circuits

FPGA

Bibliometric indicators

1. Number of journal publications in WoS/ Scopus 18 (Core Collection) / 24

2. Citations excluding self-citations WoS 174 Scopus 229

3. Hirsch index WoS 7 Scopus 8

1. The number of PhD students who have graduated under your supervision: 0

2. The number of PhD students currently supervised:

a. within the current doctoral school 0

b. within doctoral studies (previous system) 0

3. Are you currently accepting new PhD students:

a. Polish Yes/No Yes

b. Foreign Yes/No Yes

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

He specializes in designing of analogue and digital integrated circuits, digital programmable circuits and programmable System On Chip. He has published more than 65 scientific papers. He is a co-author of two students scripts. His work has been cited more than 100 times, and the Hirsch index is 7 (WoS). He actively participated in the 10 research projects as the contractor or the main contractor. He is a co-designer of approx. 10 application-specific integrated circuits (ASIC) in CMOS technologies from 2um to 90nm and several systems made in FPGA technology.

Funding or special equipment needed to carry out a PhD project ⁱⁱⁱ:

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.	Support for Employees with ASD in the Workplace Using a Bluetooth Skin Resistance Sensor–A Preliminary Study, Tomczak M. T. , Wójcikowski M. , Listewnik P. , Pankiewicz B. , Majchrowicz D. , Szczerska M. - SENSORS	100	2018
2.	Photoplethysmographic Time-Domain Heart Rate Measurement Algorithm for Resource-Constrained Wearable Devices and its Implementation, Wójcikowski M. , Pankiewicz B. - SENSORS	100	2020

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3.			
4.			
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 ^{iv}
1.	Grant Excento e-Pionier I, "Stress monitoring system in children with developmental disorders in educational institutions".	2018-2019	PI
2.	Grant MNiSzW Nr O R00000312: "The integrated laser photography system for monitoring of open space and preventing terrorist threats", years 2010-2012, consortium TUG, WAT – leader, CTM Gdynia, Hardsoft Kraków)	2010-2012	PI
3.	Grant MNiSzW Nr O R00000312: "The integrated laser photography system for monitoring of open space and preventing terrorist threats", years 2010-2012, consortium TUG, WAT – leader, CTM Gdynia, Hardsoft Kraków)	2010-2012	PI

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Additional relevant informatio (no more than 1600 characters)^v

Currently, it is planned to direct research into the field of low-power, low frequency CMOS analog filters for applications in the area of signal measurements useful in medical diagnostics. The second planned area of interest is a research in development of cheap air quality sensors.

ⁱ You may select up to two disciplines out of 12 disciplines represented in the Doctoral School

ⁱⁱ Observe the limit of not more than 2000 characters

ⁱⁱⁱ Leave only one answer

^{iv} 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

^v Add any other relevant information e.g. awards for PhD students whom you supervised (no more than 1600 characters)