Prospective supervisor's form

Name of the supervisor: Adam Lamęcki

Academic title: dr hab. inż.

Orcid ID number: https://orcid.org/0000- 0003-4747-7167

Gdańsk University of Technology **Faculty of** Electronics, Telecomunications and Informatics (ETI)

Department of Microwave and Antenna Engineering

Phone: **+48** 583472917

E-mail: adalamec@pg.edu.pl

Personal web page: https://pg.edu.pl/ 2f7a9c9514_adam.lamecki

Discipline[i] control, electronic and electrical engineering | none

Optional

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

high frequency circuits

computational electromagnetics

finite element methods

microwave filters

Bibliometric indicators

1. Number of journal publications in WoS/ Scopus: 57
2. Citations excluding self-citations — WoS: 467 — Scopus:
3. Hirsch index — WoS: 14 — Scopus:

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]

1) Computational electromagnetics techniques for efficient simulation and optimization of passive microwave components,
2) CAD techniques for high frequency circuits in 5G networks,
3) 3D printed microwave filters for space applications,

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

1. Is funding available for experimental work: *Yes/No/not needed* — not needed
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.	A. K. Jha, A. Lamecki, M. Mrozowski and M. Bozzi, "A Microwave Sensor with Operating Band Selection to Detect Rotation and Proximity in the Rapid Prototyping Industry," in IEEE Transactions on Industrial Electronics.	200	2020
2.	L. Balewski et al., "Step on It Bringing Fullwave Finite-Element Microwave Filter Design up to Speed," in IEEE Microwave Magazine, vol. 21, no. 3, pp. 34-49, March 2020.	100	2020

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3.	A. K. Jha, A. Lamecki, M. Mrozowski and M. Bozzi, "A Highly Sensitive Planar Microwave Sensor for Detecting Direction and Angle of Rotation," in IEEE Transactions on Microwave Theory and Techniques, vol. 68, no. 4, pp. 1598-1609, April 2020.	140	2020
4.	M. Mul, V. de la Rubia, G. Fotyga, A. Lamecki and M. Mrozowski, "Regularized Local Multivariate Reduced-Order Models With Nonaffine Parameter Dependence," in IEEE Transactions on Microwave Theory and Techniques, vol. 67, no. 5, pp. 1778-1789, May 2019.	140	2019
5.	M. Czarniewska, G. Fotyga, A. Lamecki and M. Mrozowski, "Parametrized Local Reduced-Order Models With Compressed Projection Basis for Fast Parameter-Dependent Finite-Element Analysis," in IEEE Transactions on Microwave Theory and Techniques, vol. 66, no. 8, pp. 3656-3667, Aug. 2018.	140	2018

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.	"Mesh deformation techniques for parametric studies and shape optimization of 3D electromagnetic structures," NCN OPUS	2014-2017	PI
2.	"Fast CAD of compact microwave filters and multiplexers using 3D electromagnetic simulators," NCBiR, contract Lider/21/148/L-1/09/NCBiR/2010	2010-2013	PI
3.	EDISON – Electromagnetic design of flexible sensors, FNP Team Tech, PI: prof. Michał Mrozowski, WETI PG	2016-2021	Co-I

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Additional relevant information – (no more than 1600 characters)[v]

[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)