Agata **Barciś**

contact

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languages

Polish mother tongue
English fluent
German intermediate

programming

Python
C
C++
Matlab/Octave

technologies

ROS 2
ROS
PX4
OptiTrack
git
SVN
Jira
Linux
embedded Linux

interests

traveling
hiking
logic puzzles
cajón playing

education

2017 – now	**PhD** in **Robotics**	University of Klagenfurt, Austria

Topic: *Robots that sync and swarm*

2015 – 2016	**MEng** in **Control Engineering and Robotics**	Wrocław University of Science and Technology, Poland

Specialization in **Embedded Robotics**
Thesis: *Data processing and analysis from flight data recorder*

2012 – 2016	**BEng** in **Computer Science**	Wrocław University of Science and Technology, Poland

Specialization in **Applied Computer Engineering in Medicine**
Thesis: *Computer application for diagnosis of melanocytic skin lesions*

2011 – 2015	**BEng** in **Control Engineering and Robotics**	Wrocław University of Science and Technology, Poland

Specialization in **Robotics**
Thesis: *Flight parameters measurement sensor system for the airplane*

2008 – 2011	**High School**	XIV Liceum Ogólnokształcące, Wrocław, Poland

experience

10.2017 – 07.2021	**University of Klagenfurt**	Klagenfurt, Austria

Senior Scientist
Worked in a project focused on creating a 3D model of an unknown environment with a fleet of UAVs. Main research focus: self-organization in temporal and spatial coordination of multi-robot systems.

12.2016 – 09.2017	**Telic AG**	Wrocław, Poland

Embedded software developer
Part of a company specialized in IoT and M2M solutions. Responsible for embedded software development in C and projects based on embedded Linux.

06.2016 – 07.2017	**The Continuum Student Research Group**	Wrocław, Poland

Control engineer
Member of the team that created *Aleph 1* Mars rover at the University of Wrocław. Responsible mainly for design and implementation of control algorithms for the manipulator. The biggest achievement: the 2nd place on the University Rover Challenge 2017 — international Mars rover competition.

10.2014 – 07.2016	**Metal-Master**	Podgórzyn, Poland

Thesis worker
Responsible for:
- designing and commissioning of a quick access data recorder,
- processing and analysis of data gathered from the system,
- creating a web application to visualize the data.

08.2014 – 07.2016	**Związek Harcerstwa Polskiego**	remotely

Programmer
A volunteer in the *New Technologies Department* (WNT) of the *Polish Scouting and Guiding Association* (ZHP) — the biggest scouting organization in Poland.

awards

2019	**Best paper award**	SASO 2019, Umeå, Sweden

The 13th IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO 2019).

2015	**Top10**	Faculty of Electronics, Wrocław University of Science and Technology

Placed 5th in the contest for the best graduates of the faculty.

2012 – 2016	**Rector Scholarship**	Wrocław University of Technology

Given to 8% of students with the highest average grade on a year.

2012 – 2016	**Governmental Scholarship**	Wrocław University of Technology

Given to students with the highest average grade on a year.