

# Mohammad Wasil

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## Education

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### Hochschule Bonn-Rhein-Sieg

*Sankt Augustin, Germany*

M.Sc. IN AUTONOMOUS SYSTEMS

*Sept. 2016 - Aug. 2019*

- Mathematics for Robotics and Control, Autonomous Mobile Robot, Humanoid Robotics, Evolutionary Algorithm, Neural Networks, Machine Learning, Deep Learning, Software Development, Advance Software Technology, Learning and Adaptivity, Reinforcement Learning, Adaptive Signal Processing

### Universitas Trunojoyo Madura

*Bangkalan, Indonesia*

B.Sc. IN COMPUTER SCIENCE

*Aug. 2010 - Aug. 2014*

- Mathematics, Programming (Java, Matlab, C, Pascal), Databases (MySQL, Oracle GlassFish), Web (PHP, JSP), Image Processing, Signal Processing, Artificial Intelligence, Fuzzy Logic, Mobile Games, Computer Graphics.

## Extracurricular Activity

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### b-it-bots RoboCup@Work Team

*Sankt Augustin, Germany*

ACTIVE MEMBER

*Apr. 2017 - Present*

- Deployment of machine learning algorithms for robotics applications
- Programmed robots using Python, C++ and Robot Operating Systems (ROS)
- Maintainer of b-it-bots open source projects

### SOKET (Trunojoyo Robotics Team)

*Bangkalan, Indonesia*

MEMBER AND TEAM LEADER IN 2013

*Jan. 2011 - Sept. 2014*

- Developed robot perception and task planning for mobile and legged firefighting robots

## Work Experience

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### Hochschule Bonn-Rhein-Sieg

*Sankt Augustin, Germany*

RESEARCH ASSOCIATE

*Jan. 2020 - Present*

- DevOps on E-assessment projects
- SciRoc - European Robotics League plus Smart Cities Robot Competitions
- Robotics engineer @b-it-bots

### Hochschule Bonn-Rhein-Sieg

*Sankt Augustin, Germany*

GRADUATE RESEARCH ASSISTANT

*Sept. 2018 - Sept. 2019*

- Large scale JupyterHub deployment for teaching on GKE
- Backend developer for e-assessment projects

### PT. Kaber Azeze Mediatel

*Sumenep, Indonesia*

SOFTWARE ENGINEER (INTERNSHIP)

*Jan. 2013 - M Mar. 2013*

- Developing and maintaining the company website and local networks

## Projects

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- 2019 **Point cloud classification of real objects using CNNs**, Master Thesis
- 2019 **Developed real-time multimodal object recognition using point cloud and rgb image**, b-it-bots RoboCup@Work Team
- 2018 **Developed robot perception for advanced welding test**, b-it-bots RoboCup@Work Team
- 2017 **Active visual scene exploration for mobile robots**, R&D Project
- 2014 **Mobile firefighting robot navigation using Fuzzy logic**, Bachelor Thesis

## Skills

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### Programming

PYTHON, C++, JAVA, MATLAB, C, BASH

### Others

GIT, GITHUB, VIM, LINUX, MACHINE LEARNING TOOLS SUCH AS TENSORFLOW, SCIKIT-LEARN, PANDAS, SEABORN

## Publications

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**b-it-bots: Our Approach for Autonomous Robotics in Industrial Environments**

*Springer, Cham*

*Dec. 2019*

## Honors & Awards

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### INTERNATIONAL

- |      |   |                                  |
|------|---|----------------------------------|
| 2019 | <b>1st Place</b> , RoboCup@Work German Open and RoboCup@Work  | <i>Germany and<br/>Australia</i> |
| 2018 | <b>1st Place - Advanced Welding Test</b> , RoboCup@Work   | <i>Montreal, Canada</i>          |
| 2018 | <b>2nd Place</b> , RoboCup@Work German Open and RoboCup@Work  | <i>Germany and<br/>Canada</i>    |
| 2018 | <b>1st Place - Line Tracing and Arbitrary Surface Challenge</b> , RoboCup@Work German Open                              | <i>Magdeburg,<br/>Germany</i>    |
| 2017 | <b>1st Place - Navigation and Manipulation Functionalities</b> , European Robotics League - Industrial Robot Tournament | <i>Germany and Italy</i>         |

### REGIONAL

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|------|---|--------------------------------|
| 2014 | <b>2nd Place Legged Firefighting Robot</b> , Indonesian Robotics Contest - Region 4     | <i>Malang, Indonesia</i>       |
| 2013 | <b>Best Strategy Mobile Firefighting Robot</b> , Indonesian Robotics Contest - Region 4 | <i>Surabaya,<br/>Indonesia</i> |

## Language Proficiency

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### English

FULL PROFESSIONAL PROFICIENCY

### Deutsch

LIMITED WORKING PROFICIENCY