

Mohammad Wasil

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Education

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

Extracurricular Activity

b-it-bots RoboCup@Work Team

Sankt Augustin, Germany

ACTIVE MEMBER

Apr. 2017 - Present

- Programmed robots using Python, C++ and Robot Operating Systems (ROS)
- Deployment of machine learning and deep learning algorithms for robotics applications
- Familiarity with robotic related libraries such as PCL library, Open3D, OpenCV
- Familiarity with machine learning related libraries e.g. Tensorflow, scikit-learn
- Maintainer of b-it-bots open source project

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
- Participated on several Indonesian robot competitions

Work Experience

Hochschule Bonn-Rhein-Sieg

Sankt Augustin, Germany

RESEARCH ASSISTANT

Sept. 2018 - Sept. 2019

- JupyterHub and nbgrader deployment on Google Kubernetes engine and local university network
- Developed a hash code generator for Jupyter Notebook
- Developed an automatic bulk Linux user generator

PT. Kaber Azeze Mediatel

Sumenep, Indonesia

SOFTWARE ENGINEER (INTERNSHIP)

Jan. 2013 - Mar. 2013

- Developing and maintaining the company website and local networks

Skills

Programming

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

Others

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

Honors & Awards

INTERNATIONAL

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

REGIONAL

2014	2nd Place - Legged Firefighting Robot , Indonesian Robotics Contest - Region 4	Malang, Indonesia
2013	Best Strategy - Mobile Firefighting Robot , Indonesian Robotics Contest - Region 4	Surabaya, Indonesia

Publications

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

Springer, Cham

Dec. 2019

Projects

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

Language Proficiency

English

FULL PROFESSIONAL PROFICIENCY

Deutsch

LIMITED WORKING PROFICIENCY