

Muhammad Fadhil Ginting

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SUMMARY

- Neophile, organized, extroverted and active person
- Solid Background in Electrical Engineering and Robotics
- Strong motivation and interest for SLAM, Artificial Intelligence and Computer Vision

EDUCATION

2013-2017 **Bachelor of Science in Electrical Engineering** - INSTITUT TEKNOLOGI BANDUNG
Bandung, Indonesia
GPA: 3.94/4.00 | Advisor: Prof. Bambang Riyanto Trilaksono

2010-2013 **Senior High School** - PUBLIC SENIOR HIGH SCHOOL 1, MEDAN
Medan, Indonesia
PROGRAM: Natural Sciences

EXPERIENCE

AUG- 2017 INSTITUT TEKNOLOGI BANDUNG, Bandung, Indonesia
Research Assistant, Autonomous Vehicle Research Group
Designing surveillance system using aerial and ground robots, building object tracking algorithms, and assisting bachelor students in the research.
Supervisor: Dr. Kusprasapta Mutijarsa, ST. MT.
Highlights: *DJI Phantom 4 Drone, Single Camera, Object Tracking, Python, ROS, STM32, Wheel kinematics*

MAY- 2017 INSTITUT TEKNOLOGI BANDUNG, Bandung, Indonesia
Research Assistant, Advanced Robotics Research Laboratory
Building navigation system for Autonomous Underwater Glider, implementing guidance system and conducting sea testing.
Supervisor: Prof. Dr. Ir. Bambang Riyanto Trilaksono
Highlights: *Autonomous Underwater Vehicle(AUV), Doppler Velocity Logger(DVL), IMU, Altimeter, C++, Sensor Fusion using Kalman Filter, Waypoint Tracking, Hardware-in-the-loop (HIL) simulation*

JAN-MAR 2017 LABTEK INDIE, Bandung, Indonesia
Intern
Proposed and built prototype of an efficient shopping scheme for convenience stores using mobile platforms.
Highlights: *Design Thinking, Scrum(Agile Framework), Android Studio, Firebase, Trello*

JUN-AUG 2016 CERN, Geneva , Switzerland
Summer Student, CERN Summer Student Programme 2016
Devised a controlled high voltage module for Micro Pattern Gas Detectors(MPGD), wrote the report and presented the result to MPGD Collaboration.
Supervisor: Dr. Leszek Ropelewski
Highlights: *GEMs Detector, PCB Design(Altium), LabVIEW, High Voltage Power Supply, Microcontroller*

PUBLICATIONS

1. Putri, T.W.O., **Ginting, M. F.**, Trilaksono, B. R., Hidayat, E. M. I., and Sagala, M. F. "Hardware In the Loop Simulation Development of Guidance System for Autonomous Underwater Glider." (Accepted) *The International Conference on Electrical Engineering and Informatics*, 2017.

LANGUAGES

ENGLISH: Proficient, IELTS 7.5/9.0 (CEFR C1), 2017
GERMAN: Independent
INDONESIAN: Native

SKILLS

Programming C/C++, Python, MATLAB, ROS, VHDL, Java

Operating Systems Systems(Linux, Windows, Virtual Box), OpenCV, LabVIEW, OpenMP, Eagle
Altium Designer, IDEs(Visual Studio, Android Studio, CodeBlock, Arduino)
Proteus, NI Multisim, SPICE, Altera Quartus

Hardware Altera Cyclone FPGA, Beaglebone, Raspberry-Pi, TS-7250 SBC, STM32, Arduino,
ATMEL AVR Microcontrollers, Mbed LPC 1768, Texas Instrument C6670 DSP,
Analog Devices Blackfin DSP Processor

Productivity Microsoft Office, \LaTeX , SAS(Analytics) Software, Trello

AWARDS AND SCHOLARSHIPS

2017 | AWARDEE OF INDONESIA EDUCATION SCHOLARSHIP
Indonesia Endowment Education(LPDP)

2016 | TOP 10 GRADUATES - LEADERSHIP PROGRAM
Young Leader for Indonesia 2016

2016 | OUTSTANDING STUDENT AWARDS
Electrical Engineering Department, Institut Teknologi Bandung

2015 | 2ND RUNNER UP
ABU Robocon 2015(Asia Pacific Broadcasting Union Robot Contest)

ASSISTANTSHIPS

JAN - MAY 2017, Lab Coordinator, *Electronics*
SCHOOL OF ELECTRICAL ENGINEERING AND INFORMATICS, Institut Teknologi Bandung

AUG - DEC 2016, Assistant Lecturer, *Control Systems*
SCHOOL OF ELECTRICAL ENGINEERING AND INFORMATICS, Institut Teknologi Bandung

AUG - DEC 2016, Lab Assistant, *Microprocessor Systems*
SCHOOL OF ELECTRICAL ENGINEERING AND INFORMATICS, Institut Teknologi Bandung

JAN-MAY 2016, Assistant Lecturer, *Electronics*
SCHOOL OF ELECTRICAL ENGINEERING AND INFORMATICS, Institut Teknologi Bandung

ORGANISATIONS

2015 - 2016, *Chairman*, University Student Robotics Team

2014 - 2016, *Senior Staff of Character Development Division*, Electrical Engineering Student Association

INTERESTS AND ACTIVITIES

Technology, Robotics, Smart System
Team management, Leadership, Teaching, Entrepreneurship
Tennis, Travelling, Photography, Reading