

Andi Antonius Tandy

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EDUCATION

TU BERLIN

M.Sc IN AEROSPACE ENGINEERING
Aug 2017 | Berlin, DEU

SWISS GERMAN UNIVERSITY

B.ENG IN MECHATRONICS
Jul 2011 | Jakarta, IDN

LINKS

Github:// [reaper1412](#)
LinkedIn:// [Andi Tandy](#)
Xing:// [Andi Tandy](#)
YouTube:// [Andi Antonius](#)

COURSEWORK

GRADUATE

Satellite Technology
Space Electronics
Mission Planning & Operation
Spacecraft Dynamics & Control
Space Sensors & Instruments
Space Flight Mechanics
Spacecraft Propulsion Systems

UNDERGRADUATE

Sensors & instrumentation
Algorithm, Programming &
Data Structure
Control Techniques
Kinematics & Dynamics
Power Electronics
Microcontroller
Embedded System
Mechatronics System Design
Professional English
6 Months Internship in Germany

SKILLS

PROGRAMMING

C • C++ • VHDL • MATLAB
HTML • CSS • Assembly • \LaTeX
Python • Git • ASCET • TPT

DESIGN

Eagle • Altium • Solid Works

LANGUAGE

English • German • Chinese

EXPERIENCE

FEV | EMBEDDED SOFTWARE DEVELOPER

Jun 2018 - Present | Leipzig, DE

- Develop and validate Engine Control software using ASCET and TPT
- Implement fixed-point arithmetic to floating point software

SURYA RESEARCH INSTITUTE | HARDWARE DEVELOPER

Nov 2013 – Apr 2015 | Tangerang, ID

- Developed a drone in collaboration with Indonesian Army
- Worked in the electrical engineering division, power distribution, and motor control

METBELOSA | EMBEDDED SOFTWARE DEVELOPER

Dec 2011 – Aug 2013 | Jakarta, ID & Shenzhen, CN

- Designed mixed signal circuit in Altium for digital electricity meter
- Transferred to EDMI Shenzhen to develop firmware for a digital electricity meter

HARMAN INTERNATIONAL | HARDWARE SUPPORT & INTERN

Mar 2010 – Aug 2010 | Stuttgart, DE

- Built a testing equipment for a car infotainment system
- Test a car infotainment system prototype unit

SIEMENS | INTERN

Sep 2008 – Jan 2009 | Cilegon, ID

- Basics of electricity and cabling systems
- Electrical measurement systems
- Electronic components and low voltage protection
- Electrical and cabinet installation

ORGANIZATION & PROJECT EXPERIENCE

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|-------------|--|
| 2019 | •Home Automation using Raspberry Pi |
| 2018 | •Flip Clock PCB circuit design and assembly |
| 2017 | •Personal Website |
| | •Master Thesis on Solar Charge Regulator |
| 2016 | •Arduino based weather measurement unit |
| 2015 | •Fluid actuator control unit |
| 2015 - 2017 | •Participated in the Management of an Indonesian Student Community in Berlin |
| 2011 | •Participated in the 13th International Robot Olympiad 2011 as referee |
| | •Thesis project on a DC-DC converter using an FPGA |
| 2010 | •Developed a "Wi-Fi controlled robot" using Arduino |
| 2008 - 2011 | •Contributed at the Swiss German University Robotic Club as lecturer |