

# Andi Antonius Tandy

andi-tandy.com  
info@andi-tandy.com | Leipzig

## 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 •  $\text{\LaTeX}$   
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 EDM I 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

- |             |   |
|-------------|---|
| 2019        | • Home Automation using Raspberry Pi  |
| 2018        | • Flip Clock  |
| 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         |