

# Handiko Gesang Anugrah Sejati

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Address: Pondok Safari Indah, B9/6, Pondok Aren, Tangerang Selatan  
Phone: 0857421249084 | E-mail: [handikogesang@gmail.com](mailto:handikogesang@gmail.com) | Date of Birth: 18 January 1992  
Website: <https://handiko.github.io> | GitHub: <https://github.com/handiko>

## CARRER OBJECTIVE

Seeking a challenging career with a progressive company that provides an opportunity to capitalize my technical skills and abilities in the field of Internet of Things (IoT) or Electronics in general.

## TECHNICAL SKILLS

- Arduino & ESP8266
- Microcontroller programming (C)
- Telemetry (Radio telemetry, HF, VHF, UHF)
- Software Defined Radio (GNU Radio)
- Digital Electronics & Hardware troubleshooting

## PROJECTS

- Arduino Rfpainter – Abusing FMCW to draw picture on spectrogram [GitHub page](#)
- Arduino APRS tracker using Dorji VHF module [GitHub page](#)
- Simple RF Jammer using ESP12 & AD9851 DDS module with MQTT [GitHub page](#)
- iBeacon using JDY-08 BLE module [GitHub page](#)
- Reflasing JDY-08 with HM-10 BLE firmware [GitHub page](#)
- AD9851 DDS module library for Aduino [GitHub page](#)
- GPS GPRMC parser library for Arduino [GitHub page](#)
- Receiving and demodulating Russian weather satellite signal [article on hackster.io](#)
- gr-APRS – A GNU Radio block for receiving APRS transmission [GitHub page](#)
- gr-Merapi – A GNU Radio block for receiving telemetry from Mt. Merapi [GitHub page](#)

## EDUCATION

### **Bachelor of Engineering, Engineering Physics, Universitas Gadjah Mada**

- GPA: 3,06
- Final Assignment: Design and Development of the Multi Mode Simultaneous Multi Channel Modulator Based on Software Defined Radio

## PRE-PROFESSIONAL EXPERIENCE

### **Engineering Intern, Helion project (Feb – March 2019)**

Estimating the Helion performace/coverage for various models.

### **Student Intern & Lab. Technician, Production House, PT. Datto Asia Teknologi (2018)**

Evaluating VHF/UHF RF path performances and Building a Software Defined Radio application for receiving radio telemetry.

### **Lab. Assistant, Sensor and Telecontrolling Systems Lab. (2013 – 2018)**

Help create labworks modules, became an Intructor & Coordinator. Finishing projects on radio telemetry.

### **Chairmain of committee, Techno Antenna Fair 2013**

Coordinating the committee to host the 2013 Tehcno Antenna Fair competition.