Rama Rahardi

rahardi6699@gmail.com | github.com/ramhdi | ramhdi.github.io | linkedin.com/in/rahardi6699   *Updated February 23rd, 2024*

Education

Institut Teknologi Bandung, Bandung, Indonesia   Aug 2017 – Jul 2021
BSc in Telecommunication Engineering, School of Electrical Engineering & Informatics. *GPA: 3.75 out of 4.00*
- Final Project: *Development of Antenna Array with Simple Beamforming Capability for DoA Estimation*
- Courses: RF Electronics, Telecommunications, Radar Systems, Embedded Systems, Computer Networks, AI & Data Analytics

Professional Experience

CAD-IT Consultants, Bandung, Indonesia   Aug 2022 – present
Software Engineer (IoT & Vehicle Telematics)
- Lead a team that develops and delivers end-to-end vehicle telematics solutions to clients, responsible for feasibility study, device installation, fleet management system development, system integration and technical support
- Develop web-based industrial IoT solutions using commercial and in-house platform for industrial asset management

Mobileum, Jakarta, Indonesia   Dec 2021 – Jul 2022
Software Engineer (Discovery)
- Developed features for mobile traffic analytics software based on client requirements
- Enriched a database of unique internet traffic flows classification for communication service providers

LAPI ITB, Bandung, Indonesia   Jul 2021 – Nov 2021
Research & Development Engineer (Radio Frequency)
- Led the primary surveillance radar (PSR) antenna development team in the national GCI Radar R&D project initiated by the Indonesian Ministry of Defence and produced antenna array with novel design
- Conducted RF high-power amplifier (HPA) initial development, focusing on component evaluation, circuit design, and simulation

Bank Rakyat Indonesia, Jakarta, Indonesia   Jun 2020 – Jul 2020
Satellite Payload Engineer Intern
- Performed cross-polarisation isolation (CPI) measurement and alignment on hundreds of VSAT terminals across Indonesia
- Studied the fundamental concepts of satellite communications system and operations of communications satellite payload

Activities

Bengkel Radio IMT 'Signum' ITB   Jan 2019 – Jul 2021
- Involved in various projects related to telecommunications and internet of things
- Chairperson of Bengkel Radio (Apr 2020 – Apr 2021)

Aksantara ITB   Jan 2018 – Dec 2020
- Conducted research projects to further improve UAV telemetry systems & technology and published two research papers
- Participated in one national UAV competition and two international UAV competitions and won two awards

Honors and Awards

3rd **place**, PLAiDEA AI Ideas Development Contest   2020
2nd **place**, Fixed Wing UAV, KRTI (Indonesia Aerial Robot Contest)   2018
2nd **place**, Fixed Wing UAV, TÜBİTAK UAV Competition   2018

Publications

Development of An Array of Patch Antennas for Straightforward Beamforming Application
Rama Rahardi, Agus Dwi Prasetyo, Rezki Benedikto Renwarin, Achmad Munir
2023 Workshop on Microwave Theory and Technology in Wireless Communications (MTTW), 2023.

A Low Cost, Compact, and Easy to Set Up 4G Telemetry Module for UAV Application
Fajri A.P. Kornel, Farhan A. Fernanda, Rama Rahardi, William D. Lukito, Pramadithya Herdian, Rhenetou Virginio, Eueung Mulyana
2021 15th International Conference on Telecommunication Systems, Services, and Applications (TSSA), 2021.

Meander Line-based Wilkinson Power Divider for Unmanned Aerial Vehicle Application
Rama Rahardi, Muhammad Rizqi, William D. Lukito, Rhenetou Virginio, Muhammad Hilmi, Achmad Munir
2020 IEEE International Conference on Communication, Networks and Satellite (Comnetsat), 2020.

Compact Dipole Antenna Based on Meander Line Structure for Unmanned Aerial Vehicle Application
Rama Rahardi, Muhammad Rizqi, William D. Lukito, Muhammad Hilmi, Rhenetou Virginio, Achmad Munir
2020 IEEE International Conference on Communication, Networks and Satellite (Comnetsat), 2020.

Skills

Programming	JavaScript (React & Vue), Go, Rust, Python, C, C++, Java, Matlab
IT	Cloud services, CI/CD, Git, Docker, Databases (Postgres, SQL Server, MongoDB), Linux, TCP/IP networking
Engineering	Electronics, PCB Design (Kicad), EM Simulation (CST Studio, Ansys HFSS, Keysight ADS)
Languages	Indonesian (native), English (fluent), German (intermediate), Swedish (beginner), Japanese (beginner)