



RAFIF MUHAMMAD RASYAD

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INTERNSHIP EXPERIENCE

PT Braja Elektrik Motor , Surabaya	Okt 2024 - Des 2024
- Assisted in the development of a battery monitoring system and technical implementation for electric vehicle systems. - Supported engineering activities related to system integration and testing.	

WORKING EXPERIENCE

Instructor – Robotics & Technopreneurship , Indonesia	Jul 2025 - Jun 2026
Orsted Education	
- Delivered instructional sessions on robotics and technopreneurship for students at elementary, junior high, and senior high school levels - Taught at multiple institutions including SMA Al-Furqon Driyorejo Gresik, SMAM 10 Surabaya, SMPM 4 Surabaya, SDN Raden Paku, SDM 8 Surabaya, and SAIM Elementary School Surabaya. - Guided students in understanding fundamental concepts of robotics, problem-solving, and innovation-driven entrepreneurship - Assisted in preparing and mentoring students for LKS 2026 competition (SMA Al-Furqon) - Developed learning materials and hands-on project activities to enhance student engagement and practical understanding	
Laboratory Teaching Assistant (PLC), MOSCHE Laboratory , Surabaya	Jan 2024 - Jan 2025
Telkom University	
- Assisted in teaching Programmable Logic Controller (PLC) fundamentals to students - Supported laboratory sessions and guided students in practical exercises - Helped evaluate student performance and understanding during lab activities	

PROJECT & RESEARCH

Research Intern – Battery System Development , Surabaya	Okt 2024 - Present
Telkom University – CoE CIRCLEST	
- Contributed as a research member in the development of a smart power-efficient adaptor for electric two-wheel vehicles - Participated in a 5-month internal research program focusing on electric vehicle energy systems - Supported system design and development for improving energy efficiency in EV applications	
Smart Urban Farming & Power Supply System – Kampung Oase Ondomohen , Surabaya	March 2024
- Contributed to the implementation of integrated urban farming systems with electrical power support - Collaborated with the community to develop sustainable and efficient energy solutions	

ACHIEVEMENT

Modul Sistem Monitoring Kendaraan Listrik Berbasis IoT untuk Estimasi Sisa Jarak Tempuh, Registration No. 001218427	May 2026
- Registered intellectual property (copyright) under the Directorate General of Intellectual Property (DJKI), Indonesia. - Contributed as a co-author in the development of an IoT-based electric vehicle monitoring module for real-time remaining range estimation. - Developed as part of electric vehicle research activities at Telkom University.	

EDUCATION

UNIVERSITAS TELKOM SURABAYA , Surabaya	Okt 2022 - Okt 2026
- Bachelor of Electrical Engineering - GPA/IPK: 3.71/4.00	
SMAN 6 SURABAYA , Surabaya	Jun 2019 - Okt 2022
Science Major	

LANGUAGES AND SKILLS

- Bahasa Indonesia (Native), English (Intermediate/Proficient).
- Proficient in software and tools including ESP32 programming (Arduino IDE), IoT platforms (Firebase), and basic PCB design (EasyEDA/Fusion).
- Experienced in IoT system development, embedded systems, electric vehicle monitoring systems, battery management (Li-ion/LiFePO4)
- Soft skills: problem-solving, teamwork, leadership, adaptability, critical thinking, good time management, and strong analytical mindset.