



NAUFAL ASYAM ALIF MUSTHAFA

Surabaya, Jawa Timur | nnaufalasyam@gmail.com

+6289677888745 | <https://naufalasyamsite.onrender.com>

INTERNSHIP EXPERIENCE

PT Telekomunikasi Selular (Telkomsel), Sidoarjo

Juni 2023 - Nov 2023

- 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.

PT Centra Biotech Indonesia, Klaten

- 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

Freelancer – Designer & Campaign Photographer, Yayasan Ruang Pasien Indonesia

Ags 2023 – Jan 2024

- Created campaign visuals and marketing materials for foundation programs.
- Served as campaign photographer for documentation and publication.
- Collaborated with the team to design communication tools supporting outreach activities.

Laboratory Teaching Assistant – Physics & Renewable Energy Lecturer Asistant, Indonesia

Okt 2024 – Present

- Assisted in teaching and mentoring students during physics and energy storage practicums.
- Guided students in conducting experiments, data collection, and analysis.
- Supported laboratory operations including setup, troubleshooting, and evaluation of student performance.
- Contributed to research activities related to battery recycling and energy storage systems.

Freelancer – IoT & Renewable Energy Technician, Indonesia

July 2024 – Present

- Designed and installed IoT monitoring systems and small-scale solar panels.
- Conducted troubleshooting, testing, and documentation of electro-IoT systems.

Freelancer – Photographer & Graphic Designer, Indonesia

Ags 2023 – July 2024

- Provided photography services for events and campaigns.
- Designed promotional and digital visual materials.
- Collaborated with SMEs and institutions for content development.

Instructor – Robotics & Electrical, Orsted Education

July 2025 – Present

- 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, SDN Raden Paku, SDM 8 Surabaya, and MTs Alif Lam Mim.
- 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

PROJECT & RESEARCH

Research – Battery Material System, Surabaya Telkom University – BEST Laboratory

Okt 2024 - Present

- 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

Demo Day – Digital Talent Program Web Traveler (Kliling) , SMK Telkom Sidoarjo

Okt 2024 - Present
March 2024

- Developed UI/UX design prototype for a tourism web application.
- Focused on user interface, user experience, and user needs.

Research – Smart Garden – IoT & Automatic Irrigation System, BPVP Sidoarjo

Okt 2024 - Present

- 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

Research – IoT & AI Based Face ID Attendance System, Lamongan Jun 28, 2025 - Ags 2025

- Contributed to the implementation of integrated urban farming systems with electrical power support
- Collaborated with the community to develop sustainable and efficient energy solutions

Research – UAV VTOL Robot KRTI, Lamongan Jun 28, 2025 - Present

- Involved in UAV VTOL (Vertical Take-Off and Landing) robotics research.
- Focused on integration of electrical, control, and mechanical systems.
- Continuous project aimed for Kontes Robot Terbang Indonesia (KRTI).
- Conducted under Team Satyagaruda, where you served as Team Leader (Jul – Nov 2024).
- Currently contributing in the Programming Division – Vajraakasha (2025 – Present), developing control algorithms and software systems for UAV operations.

ORGANIZATION

Electrical Engineering Student Association, Surabaya Okt 2025 - Present

Himpunan Mahasiswa Elektro (HME)

- Contributed to research and development activities related to electrical engineering and IoT systems
- Collaborated in team-based engineering projects focused on innovation and technology implementation
- Led the execution of MARVEL program/event

Robotika Telkom University (PLC), UKM ROBOTIKA, Surabaya Telkom Okt 2024 - Present

University

- Served as Chairperson (2024 period), directing organizational strategy, competitions, and collaborative projects.
- Actively engaged in UAV VTOL project development under Team Satyagaruda, coordinating mechanical, electrical, and control subsystems.
- Transitioned to Programming Division – Vajraakasha (2025 – Present), focusing on UAV software development and algorithm design.
- Supported member development and cross-division technical activities for competition preparation..

EDUCATION

UNIVERSITAS TELKOM SURABAYA, Surabaya Okt 2024 - Present

- Bachelor of Electrical Engineering

SMK TELKOM SIDOARJO, Surabaya June 2021 - Mei 2024

- Telecommunication Access Networks Engineer

LANGUAGES AND SKILLS

- Bahasa Indonesia (Native), English (Intermediate/Proficient).
- Proficient in software and tools including ESP32 programming (Arduino IDE), IoT platforms (Firebase), MATLAB/Simulink, 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.