NYIMAS ANGGUN BAROKATILLAH

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As a fresh graduate Physics Engineering with hands-on experience in both technical and community-based engineering projects. Actively involved in the research of automation systems, IoT-based devices, and water quality monitoring technology. Experienced in teaching, budget management, and proposal writing through various organizational and competition roles. Currently seeking opportunities to contribute expertise in sustainable hardware innovation, electrical systems, instrumentation, automation, and data-driven innovations.

Work Experiences

PT Alam Virtual Semesta - **Bandung, Indonesia**   Oct 2024 - Jul 2025
Freelance Junior Technical Writer
- Writing manuals, operational, and maintenance books for various simulator projects, such as a welding and a train simulator with totaling over 100+ pages of technical documentation

Advanced Control System Laboratory - **Bandung, Indonesia**   Jul 2024 - Jul 2025
Electrical and Non-Technical Assistant
- Assembling the electrical system for two Autonomous Guided Vehicles (AGV), including designing the PCB board.
- Helped organize the "Mastering ROS Basic Workshop" attended by over 4 engineering students, handling coordination and preparation of materials.

PT Alam Virtual Semesta - **Bandung, Indonesia**   Jun 2024 - Aug 2024
Intenship RnD Division
PT Alam Virtual Semesta is a company that focuses on manufacturing simulators.
- Implementing VoIP (Voice Over Internet Protocol) in a microcontroller in a project to create communications in a war simulation using the ESP32 Development board module.

Laboratorium Dasar Komputer - **Bandung, Indonesia**   Oct 2022 - Jun 2024
Steering Committee Assistant for Assignment and Task Committee
- Tutoring a group of first-year students to understand 10 basic computer modules, while also creating 10 training slides.
- Leading the administrative division for recruitment and managing the onboarding process for more than 200 new assistants.

Education Level

Universitas Telkom ✓ - **Bandung, Indonesia**   Aug 2021 - Aug 2025
Bachelor of Engineering Physics, 3.71/4.00
- Authored a paper published in Emitor Journal proposing "A Low-Cost Device to Upcycle PET Plastic Bottles Into 3D Printer Filament".
- Designed a submersible water quality monitoring device for multi-depth reservoir using buoyancy engine mechanism on final project.

Organisational Experience

Electronics and Intelligence Robotic Research Group - **Bandung, Indonesia**   Jan 2023 - Aug 2025
Member of Publication and Documentation Division
- Engaged actively in the Indonesian Robot Contest ABU Robocon 2024 as a supporting team and got 2nd place at the regional phase and 4th finalist at the national phase.
- Actively supported the ABU Robocon Indonesia 2023 team, contributing to proposal and logistics, achieving Top 8 finalist at the national stage.
- Responsible for constantly documenting live reports during all laboratory events.
- Developing a strategic content plan for branding purposes and successfully increasing 30% followers on Instagram.
- Managing the recruitment of new members for the official team for 6 months.

Engineering Service Community   Apr 2024 - Apr 2025
A community at Telkom University focused on implementing creative convergence design through multidisciplinary engineering services.
- Contributed to the consumption division in a Community Service Learning event, supporting 15+ committee members and serving 40 participants.
- Served as Content & Marketing Strategy division for a Community Service Learning event, organizing pre-event campaigns and engaging over 200 participants.
- 3D Designing and maintaining BUDIKDAMBER or Catfish Cultivation in Buckets.

HIPMI PT Telkom   Oct 2021 - Jul 2022
- Head of Mentor Division for Young Entrepreneurship Camp 2022, impacting 15+ mentor members.
- Team leader for the Mataram team as a participant for Young Entrepreneurship Camp 2021.

Skills, Achievements & Other Experience

- **Organizer Comimittee** (2025): Workshop PLC Training colaboration with BNSP
- **Creativity Station** ✅ (2024): Collaborated with Korean universities in Project BEE to develop an IoT-based Anti-Insect Ultrasonic Speaker for reducing cattle stress in Banyuwangi, as part of the Engineering Service Community program.
- **P2MW** (2024): Kemdikbudristek Competition on entrepreneurial and has successfully sold 300++ pcs of Sourdough Sandwiches in 3 months.
- **Innovillage** ✅ (2024): Developed a clean water filtration system for Kutai Lama Village as part of the LifeOase project.
- **Achievements** (2023): Best Member of 4th team in Community Service Learning
- **Innovillage** ✅ (2023): Designing the mechanics of CacaoKeeping and helping urban digitalization by simplifying cacao's post-harvest process.
- **IDCamp** (2023): Learning Basic Data Science, Fundamental Data Analyst, and Machine Learning for Data Science.
- **DQLab Class** ✅ (2023): Learning Fundamental SQL for Data Science Fundamental.
- **Data Analytic Bootcamp** ✅ (2023): Ms. Exel, MySQL, Tableu, Python for Data Analyst.
- **Community Service Learning** (2023): Designed and implemented an automated garden watering system for SEIN Farm in Ujung Berung.
- **Achievements** (2022): 1st Winner of graphics design in PHYSTON Competition
- **INSIGHT Laboratory** (2022): Supporting final-year students by calibrating low-cost sensors and validating monitoring data from 3 stations.