



RYAN ERIANSYAH

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Physics graduate from Universitas Indonesia with hands-on experience in scientific research, laboratory operations, data analysis, and academic mentoring. Skilled in analyzing complex problems, interpreting experimental data, and communicating technical findings effectively. A fast learner with strong adaptability, attention to detail, and a continuous improvement mindset, eager to contribute analytical thinking and problem-solving skills in dynamic professional environments.

Education

Universitas Indonesia - Depok, Indonesia <i>Bachelor of Physics</i>	Aug 2022 - Aug 2026
- Developed strong analytical, quantitative, and problem-solving skills through experimental research and data-driven projects. - Strengthened critical thinking and communication skills by presenting scientific findings and collaborating on research activities. - Applied data analysis and visualization techniques to support evidence-based decision-making.	

Work Experiences

Badan Riset dan Inovasi Nasional - Serpong, Indonesia <i>Chemist Researcher</i>	Mar 2025 - May 2026
- Executed end-to-end material synthesis and characterization workflows using SEM, XRD and UV-Vis spectrophotometry, ensuring strict adherence to experimental protocols, data reliability, and reproducibility. - Analyzed and interpreted complex experimental datasets using statistical and quantitative methods to identify performance trends, evaluate results, and support process optimization. - Authored technical reports and presentation materials, translating complex research findings and raw data into clear, actionable insights for academic and cross-functional stakeholders.	
Department of Physics, Universitas Indonesia - Depok, Indonesia <i>Electronics Laboratory Assistant</i>	Feb 2025 - May 2025
- Guided students in interpreting circuit schematics and assembling simple electronic circuits based on laboratory module instructions. - Assisted students in operating laboratory equipment and conducting electronic circuit experiments while ensuring proper procedures were followed. - Reviewed students' circuit setups and experimental results, identifying and resolving technical and assembly issues to support accurate outcomes and smooth laboratory operations.	
Excelsis Learning Center - Depok, Indonesia <i>Science Tutor</i>	Aug 2024 - Aug 2025
- Provided instruction to 50+ students by assessing learning needs and tailoring teaching strategies across national and Cambridge curricula. - Translated complex quantitative concepts into accessible frameworks, strengthening students' analytical and problem-solving capabilities. - Developed structured learning materials and assessment tools aligned with curriculum standards, ensuring consistency and quality across sessions.	
SIMAKARA - Depok, Indonesia <i>Academic Development Staff</i>	Mar 2024 - Jul 2024
- Developed mathematics assessment questions for university entrance examination preparation. - Created mathematics learning materials aligned with curriculum standards and learning objectives.	

Organizational Experiences

LD MII <i>Head of Human Resource Development</i>	Oct 2024 - Mar 2025
- Led a cross-functional department, designing and executing development programs that strengthened team capability and organizational performance. - Directed planning and resource allocation across multiple concurrent initiatives, ensuring on-time delivery of program objectives. - Built structured mentoring and training frameworks, improving member engagement and operational consistency.	
HMD Fisika UI <i>Head of Spiritual Affairs</i>	Mar 2024 - Feb 2025

- Managed end-to-end planning and execution of departmental programs, coordinating multiple stakeholders to meet project timelines.
- Oversaw team responsibilities and resource allocation, ensuring consistent program delivery across a full academic term.
- Drove member engagement initiatives that strengthened community participation and organizational cohesion.

SALAM UI

Mar 2023 - Feb 2024

Vice Head of Production

- Coordinated content production and documentation for university-wide events, ensuring timely and high-quality deliverables.
- Oversaw digital content strategy and publication, ensuring consistent, quality-controlled communication output.
- Managed live technical operations for hybrid events, ensuring smooth execution under time-sensitive conditions.

Skills, Projects, & Others

- **Research Projects:** Core Size Dependence in Pulsed Laser-Induced Plasmonic Catalysis Observed in Gold@silver Core@shell Nanoparticles Synthesis & Development of a Fiber Optic Sensor Based on the LSPR Phenomenon Using Gold Nanoparticles for Monitoring Lithium-Ion Battery Charging–Discharging Cycles.
- **Hard Skills:** Python, Spreadsheet, Excel, Word, PowerPoint.