



BERLIANA ELFADA

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SUMMARY

As an informatics engineer, I possess strong expertise in system development, algorithm modeling, and data processing in the fields of engineering, technology, and real-time applications. Excellent reputation for solving complex problems and actively participating in organizations and professional forums. Experienced in quality assurance, UI/UX design, writing manuscripts, scientific articles, presentations, user manuals, technical documentation, and developing predictive estimation.

EDUCATION

Politeknik Negeri Bandung

Bandung, West Java

Bachelor of Applied Science in IT (S. Tr. Kom) - D4 Informatics Engineering

2021-2025

- Learn about Software Development, Algorithm Design, Database Management, UI/UX, System Analysis, Software Quality & Testing, Predictive Modeling, and Real-Time Data Processing

EXPERIENCE

Final Project with PT Len IoT: Ship Trajectory Estimation System

Feb 2025 - Jul 2025

- Developed ship trajectory estimation using *Extended Kalman Filter* (EKF) with curvature-aware modeling
- Applied adaptive tuning of covariance matrix (Q and R) to improve prediction accuracy
- Built MATLAB-based application for predictive estimation for simulation purposes
- Conducted research in collaboration with PT Len to explore system prediction

CV Garuda Infinity Kreasindo (Internship)

Jun 2024 - Oct 2024

- Software Quality Assurance Tester
 - Conducted functional, regression, and automation testing using Selenium and Katalon
 - Created test cases, identified bugs, and worked with the development team to ensure software reliability
 - Improved software quality by catching critical issues early, reducing post-release errors
- UI/UX Designer
 - Designed user-friendly interfaces for the GIK Talent HRIS application
 - Collaborated with project managers, product owners, and developers to ensure alignment and seamless implementation
 - Delivered an intuitive design and improved user satisfaction based on internal feedback
- Technical Writer
 - Created clear and practical user manuals for the GIK Talent HRIS application
 - Documented feature guides and step-by-step instructions to support end-users
 - Provided complete and accessible documentation

CERTIFICATIONS

Arutala Lab

2025

- Completed Junior Software Quality Assurance Certification Program

Politeknik Negeri Bandung

2024

- Created a paper "Real-time Convolutional Neural Networks for Emotion Classification Integrated with YouTube Content Recommendation Based on Emotion"

KOMINFO

2021

- Participated in the National Digital Literacy Program organized by KOMINFO and Siberkreasi with the theme "Untuk Indonesia #MakinCakapDigital"

ORGANIZATIONAL EXPERIENCES

Himpunan Mahasiswa Teknik Komputer (HIMAKOM)

2023 - 2024

- Vice Head of External Relations Department
 - Participated in the agency's external communication leads development

Himpunan Mahasiswa Teknik Komputer (HIMAKOM)

2022 - 2023

- Junior Staff of External Relations Department
 - Supported external partnership initiatives and assisted in building collaborations with organizations outside the campus
 - Participated in organizing events and maintaining communication with external stakeholders
 - Contributed to team discussions and planning to improve external engagement strategies
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COMITTEE & VOLUNTEER EXPERIENCE

Pengmas - External Relations Department, HIMAKOM

2023

- PIC of Pengmas (Pengabdian Masyarakat)
 - Coordinated social initiatives such as village clean-up activities and second-hand book and clothing sales to support the local economy
 - Managed project planning, team coordination, and event execution to ensure the success of the social impact program

Markisa (Mari Kita Peduli Sesama) - External Relations Department, HIMAKOM

2022

- Documentation and Publication Team
 - Handled for documentation and publications for the event to help outreach to our educational offerings

Misi Kemanusiaan - External Relations Department, HIMAKOM

2022

- Sponsorship Division Team
 - Handled for building partnerships and securing sponsorships to support the success of the event
 - Collaborated with the external relations team to ensure funding and resource availability
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SKILLS HIGHLIGHT

- **Technical:** Web development (React, HTML, CSS, JavaScript), figma, software quality assurance (Manual & Automation Testing), automation tools (Selenium, Katalon Studio, Robot Framework), database management (SQL, PostgreSQL), data analysis & modeling (MATLAB, Python), version control (Git, GitHub)
- **Interests:** software quality testing & automation, UI/UX design, digital writing & technical documentation, writing a scientific paper, development research, data sciences
- **Others:** Team management, problem solving, critical thinking, adaptability, eager to learn