

LAUREN CHRISTY TANUDJAJA

Jakarta, Indonesia

lauren.tanudjaya@gmail.com | +62 838 0745 6704 | <https://www.linkedin.com/in/laurentanudjaja/> | [Portfolio](#)

EDUCATION

Universitas Indonesia | Computer Engineering (3.78/4.00)

Aug 2021 – Present

- Received **INSPIRE 2024 UI Scholarship** for overseas internship in **NTUST, Taiwan**.
- Actively engaged in student organizations: **TRUI** (Robotics), **IME FTUI** (Student association), **EXERCISE FTUI** (Technology consulting projects), **BEM FTUI** (Student association).

WORK EXPERIENCES

PT Perusahaan Gas Negara (*Badan Usaha Milik Negara (BUMN)*)

September 2024 – December 2024

Information & Communication Technology (ICT) Infrastructure Intern

- Implemented user indoor positioning technology for 500+ clients and generated user frequency-based heatmaps within the Wi-Fi network.
- Demonstrated mobile indoor wayfinding use cases using unsupervised machine learning.
- Utilized Power BI to create visualizations on service ticketing datasets to identify and resolve 500+ moderate and 12 critical issues and track the impact on mobile application users.

NTUST BMW Laboratory (*Broadband Multimedia Wireless Laboratory*)

December 2023 – August 2024

WiFi Research Intern (Digital Twin, WiFi Optimization, and Localization of Rogue AP)

- Developed regression models, achieving 98.7% accuracy in predicting the indoor relative position of unauthorized access points across 14 floors of the local dormitory.
- Collaborated with NVIDIA to implement Sionna RT for WiFi data visualization, analyzing data from 100+ access points to identify library enhancements including the coverage map library.

Bangkit Academy 2024 (*By Google, GoTo, Traveloka*)

Sep 2023 – July 2024

Cloud Computing Path Cohort

- Achieved a high score of 93.4 for the product-based capstone project Chronic Disease Prevention and Mitigation as one of the Best 50 Product-track Capstone Projects out of 588 submissions.
- Specialized in advanced cloud computing expertise scoring 90.75 in the skills assessment, with hands-on experience deploying applications, architecting solutions, utilizing BigQuery for data analysis, and integrating CI/CD pipelines for automated application deployments on Google Cloud Platform (GCP).

VTOL Tim Robotika Universitas Indonesia (*Drone-focused research and competition team*)

May 2022 – May 2024

Electric Technical Director

- Engineered the drone's intricate electrical system, fostering a collaborative learning environment that empowered seven team members with critical R&D skills while ensuring seamless integration between hardware and software components.
- Successfully achieved runner-up of NXP Hovergames by creating an automated UAV spray response system.
- Successfully entered KRTI Finals by developing a web-based ground control station for UAV status monitoring.

Universitas Indonesia (*Faculty of Engineering*)

Feb 2023 – May 2023

Assistant Lecturer (Calculus)

- Conducted thorough reviews of quizzes and homework assignments for 50+ students.
- Delivered engaging and informative supplementary lectures for 40+ students.
- Achieved a 75% increase in the number of students passing the Calculus final exam.

Universitas Indonesia x Bank Republik Indonesia (BRI) (*Quadplane Monitoring Project*)

June 2022 – Dec 2022

Electrical Division

- Successfully developed an operational quadplane with efficient electrical integration, tuning, and cost-effective material selection for monitoring missions.
- Resolved tuning issues malfunctioning servos and transmitter binding challenges through systematic troubleshooting.

HONORS AND AWARDS

- **Top 50 Product Track Capstone Projects** on Bangkit Academy 2024 for Chronic Disease Prevention and Mitigation (Organized by Google, GoTo, Traveloka) [National].
 - **Awardee** on INSPIRE Scholarship 2024 (Organized by Universitas Indonesia) [National].
 - **Finalist** (Selected as one of 20 out of 70+ registrants) on Kontes Robot Terbang Indonesia 2023 (Organized by Kemendikbudristek) [National].
 - **1st Runner Up** on NXP HoverGames3: Land, Sky, Food Supply (Organized by NXP) [International].
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STEM PROJECTS

- **Wi-Fi Digital Twin:** Machine Learning project to detect rogue access points and visualize network anomalies in NVIDIA Sionna (Role as **Machine Learning Developer**).
 - **PollPal:** Blockchain-based electronic voting system (Role as **Backend Developer**).
 - **CASION:** Mobile chatbot app for chronic disease management and prevention (Role as **Cloud Computing Lead**).
 - **QueueEase:** Web-based queue system for banks (Role as **Frontend Developer**).
 - **Smart Health Monitoring System** for Heart Rate and Body Temperature (Role as **Project Manager** and **IoT Developer**).
 - **Lexia:** Skill-Enhancing Game for Individuals with Dyslexia (Role as **Frontend Developer**).
 - **JSleep:** Android App Hotel for Renting Rooms (Role as **Fullstack Developer**).
 - **VishGround:** Web-based Ground Control System for UAV (Role as **Electrical Director**).
 - **Cigritous:** Crop Monitoring with Automated UAV Spray Response (Role as **Electrical Director**).
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ADDITIONAL INFORMATION

Technical Skills: Web Development using HTML, CSS, WordPress, React.js & Node.js; Data Visualisation using Python, PowerBI, and NVIDIA Sionna; DBMS (MySQL, MongoDB, InfluxDB); Experience with Google Cloud Platform (GCP); Big Data Technologies (Hadoop and Spark); Internet of Things (Sensor integration, real-time monitoring, drone automation); Machine Learning (Scikit-learn, TensorFlow, Keras); Statistical Analysis (Regression, Hypothesis Testing, Time Series Analysis).

Soft skills: Public speaking, adaptability, project management, teamwork, leadership.

Programming Languages: JavaScript, VHDL, Assembly, Python, C/C++, MATLAB, Java

Speaking Languages: Bahasa Indonesia (Native Proficiency), English (Limited Working Proficiency), Chinese (Elementary Proficiency).

Certification: Bangkit Cloud Computing Completion with 90.75 scoring (2023), English Proficiency Test with 570 scoring (2021).