

Laurensius Rivian Pratama

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EDUCATION

INSTITUT TEKNOLOGI BANDUNG

Bandung, Jawa Barat

Faculty of Art and Design, Industrial Design Major

2018-2022

- **GPA:** 3.66 / 4.0
- **Relevant Coursework:** User-Centered Design, Design Anthropology, Interaction & Service Design, Product Semantics, Design Ergonomics, Design & Human Factor

WORK & LEADERSHIP EXPERIENCE

WASTE4CHANGE ENGINEERING & TECHNOLOGY

Bekasi, Jawa Barat

Product Development - Contract

Nov 2023 - July 2025

Waste4Change is an Indonesian circular-economy company that provides end-to-end responsible waste management services and designs material recovery facilities and custom waste-processing systems.

- Led product development work in the Engineering & Technology division, researching on-site bottlenecks and redesigning components and layouts of the ASANO waste-processing machine and internal MRF line to improve throughput, ergonomics, and reliability.
- Created BABBLIN, a playful waste-sorting bin interface that uses character-like visuals to nudge people to put waste in the correct bin, from concept and visual system to pilot deployment inside the company.
- Designed technical communication assets—website pages, product catalogue, and operator manuals—restructuring engineering information so clients and field operators can quickly understand machine capabilities, installation, and daily workflows.
- Coordinated TKDN (local content) documentation for one machine for the Ministry of Industry, gathering supplier data and compiling the submission, which was accepted without major revision.

Apple Developer Academy @BINUS

Tangerang Selatan, Banten

Junior Developer (Apple Platform) - Internship

Mar 2023 - Dec 2023

Asia's first-ever initiative to empower Indonesia's economy by creating world class developers for the world's most innovative and vibrant app ecosystem by Apple Inc.

- Alica – Co-designed content and interface for an iPad AAC app for non-speaking communicators, localized PECS-style cards for Indonesia, and produced the app's promotional video trailer.
- Haunted Forest: Hunter & Brewers – Sound designer for a 2-player macOS co-op survival game; created and edited music, ambience, and sound effects in GarageBand.
- NostroVision – Solo-led concept, design and development of a HealthKit-based walking app that predicts “longevity chance” to gamify daily step goals.
- Dimas – Designed UI/UX and interaction copy for an MRT station iPad wayfinding app that guides riders to the optimal exit gate.
- LiftDrive – Designed UI/UX and in-app content for an iOS gym-coach app delivering beginner workout plans, exercise demos and form tips to reduce gym anxiety.
- Invends – Designed UI/UX for a social feedback app enabling anonymous questions, journaling of advice, and a curated feed from trusted contacts.

PT. TRUSUR UNGGUL TEKUSA

Bandung, Jawa Barat

Product Designer - Contract

Jul 2022 - Sept 2022

PT. Trusur Unggul Teknusa is an environmental technology company that focuses on instrumentation ecosystem and monitoring ecosystem to support various business sustainability.

- Co-designed TRUSUR ACTIS air quality monitoring system device to ensure effectiveness of its user operability, with high usability and high portability, using modular compact design.

MAGGNUS - Paguyuban Pegiat Maggot Nusantara*UI/UX Designer - Volunteer***Bandung, Jawa Barat**

Feb 2022 - Mar 2022

Paguyuban Pegiat Maggot Nusantara is a nonprofit organization that focuses on the tackling of food waste issues by utilizing black soldier fly maggots to compost food waste, while MAGGNUS is an online learning platform that educates people on how to compost food waste using black soldier fly maggots.

- Designed the user interface and user experience of the MAGGNUS website in a mobile-first manner, applied best practices in web usability and web responsiveness.
- Created wireframe and user flows with already defined user persona and information architecture, tested different layouts and interactions.
- Worked with a team of fine art majors responsible for creating high quality artworks and visual assets, delivered the final prototype to the front-end & back-end engineer team while ensuring that all design elements were implemented in a pixel-perfect manner in the final product.

MASPION ELECTRONICS*Product Designer - Internship***Sidoarjo, Jawa Timur**

May 2021 - Aug 2021

Designed mass-manufacturable new Electric Wall Fan product nicknamed 'PW18-C'.

- Performed reverse-engineering; validating structural robustness using finite-element method of existing Maspion's Electric Wall Fan product.
- Developed new product brand identity for long-time usage.
- Utilized injection molding method with ISO-SNI standard while maintaining ease of assembly; optimized cost & material efficiency using shape optimization by static stress analysis; managed to utilize existing internal electronics component & assembly line.
- Implemented human-centered design principles while developing a new control system for Electric Wall Fan product with manual control function.
- Managed to ensure 3D modeling workflow interchangeability between Fusion 360 and company-standard Unigraphics NX 4.0.
- Created the final product showcase with video rendering in a week.

ITB Institute for Research and Community Services*Researcher - Assistant***Kepulauan Selayar, Sulawesi Selatan**

Feb 2021 - Dec 2021

Employed to assist the utilization of backshore beach PP-plastic waste into modular-buoy usage for local seaweed farming in the Selayar Islands project using open hardware plastic recycling machines.

- Designing buoy design alternatives with singular mold which simultaneously acted as male and female parts.
- Performing structural buckling analysis using FEM with hydrostatic pressure load on 3D CAD buoy design to maximize waterproofing performance.
- Conducting rapid prototyping using FDM printer; simulates real world usage by submerging the prototype in home-usage bath water container to ensure sealing performance.

INDDES ITB*Website Development - Project Manager***Bandung, Jawa Barat**

Jul 2020 - Feb 2021

Managed and assisted the team regarding survey research, content, UI/UX, front-end and back-end for Industrial Design Student Society (Himpunan Mahasiswa Desain Produk) Website.

- Defined website's tech-stack; utilize Gatsby.js, Netlify, and GitLab as its JAMstack framework
- Wrote first half of its JS code with Gridsome before migrating to Gatsby.js.
- Validated feasibility of Figma prototype without compromising aesthetic & usability, cost, performance, and user experience.
- Reviewed the final website with its JS/HTML & CSS source code; usability testing across various devices & screen size while ensuring its design responsiveness.
- Currently serving as webmaster, content publisher, and maintaining website usability periodically.

AKSANTARA ITB*Aerodynamics and Mechanical Designer - Volunteer***Bandung, Jawa Barat**

Mar 2020 - Dec 2021

Aksantara is a UAV research and development unit from Institut Teknologi Bandung that focuses on developing innovative unmanned aerial vehicles. Our team participates in national and international competitions, and also publishes papers on UAV technology.

- Co-authored paper which was published in IEEE under ICARES 2021 conferences with title "Biplane Wing Gap Influence Study of UAV with Wing-shaped Fuselage using Computational Fluid Dynamics".
- Designed and developed the mechanical & airframe of the small cargo UAV prototype 'FEAD' to revolutionize instant package delivery in remote areas with the Technology Development Airframe department.
- Performed computational fluid dynamics study of FEAD to analyze flight performance & wing distance influence; ensuring best configuration of it's biplane wing, airfoil-like payload design usage.

HONORS & AWARDS

2024 Swift Student Challenge

Mar 2024

Apple

Selected as a 2024 Swift Student Challenge winner for *MyopiaSim*, an interactive Swift playground that simulates what the world looks like at different levels of myopia. Designed a visual-novel experience to help children understand nearsightedness and encourage better eye-care habits through playful storytelling and gamified choices.

3rd Winner in Airframe Technology Development with Atyasa Bramantya Team Kontes Robot Terbang Indonesia 2020

Nov 2020

Pusat Prestasi Nasional, Kementerian Pendidikan dan Kebudayaan Republik Indonesia

Conducted aerodynamic analysis; designed airframe structure; examined user experience; drafted laser cut layout template as main prototyping method.

PUBLICATIONS

Diqnada, D., Dyatmika, W. W., Fahimna, B., **Pratama, L. R.**, & Amalia, E. (2021). Biplane Wing Gap Influence Study of UAV with Wing-shaped Fuselage using Computational Fluid Dynamics. 2021 IEEE International Conference on Aerospace Electronics and Remote Sensing Technology (ICARES).

<https://doi.org/10.1109/icares53960.2021.9665203>

Rivian Pratama, L. (2022). THE DEVELOPMENT OF SINGLE-USE PLASTIC BAG FASTENING DEVICE UTILIZING PLASTIC CUP WASTE (CASE STUDY: THE PROBLEM OF CABLE TIES USAGE AS PLASTIC BAG FASTENER AND PLASTIC CUP WASTE). ITB Digital Library.

<https://digilib.itb.ac.id/gdl/view/65696>

SKILLS, ACTIVITIES & INTERESTS

Languages: Native in Indonesian; Professional working proficiency in English

Skills: Adobe Creative Suite, Figma, Fusion 360, SolidWorks, ANSYS, Cinema 4D, Octane Render, Keyshot, Unreal Engine, React.js, Swift, C++ (Arduino), HTML/CSS, Visual Basic, 3D Printing (FDM), Garageband

Interests: 3D Modeling & Rendering, UI/UX, IoT, Arduino, AI/ML, Web Development, Videography, Photography, Motion Graphics, Aerodynamics, Material Sustainability, CMF (Color, Material, Finish), Sound Design