

AURELIO JEREMI BASTEN SITINJAK

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Geomatics Engineering graduate with experience in the coal mining industry and the Ministry of Agrarian Affairs & Spatial Planning. Top 10 National Finalist in the ASEAN Geospatial Challenge 2024. Skilled in GIS programming and terrestrial mapping. Proven ability to apply technical expertise in real-world projects, contributing to innovative solutions in the geospatial and mining sectors.

EDUCATION BACKGROUND

Institut Teknologi Sepuluh Nopember

2020 – 2024

Undergraduate Thesis: Estimating Carbon Stock in Teak Forests Using LiDAR

GPA 3.24/4.00

Used LiDAR data to segment tree stands and validate carbon stock es measurements, enhancing accuracy in forest management.

Achievement: Top 10 National Finalists of ASEAN Geospatial Challenge

2024

Activity: Teaching Assistant for Department of Geomatics Engineering

2024

WORK EXPERIENCES

PT SKYTECH Indonesia | *GIS ANALYST*

Feb 2025 - Now

- Created new feature for Biota drone spraying flight tracking about its spraying flight tracks.
- Refactored code and MongoDB collection due to the incoming drone source so that the user able to add drone flight track from new source.
- Worked with project manager as well as data engineering team to acquire data insights of a news and social media account and display the result of data prediction with card and table using Laravel and React.js Projects
- Biota Drone flight tracking web application using PHP Laravel (Website)

Sept – Nov 2024

PT Smartech Solutions International | *Pre-sales Engineer (CHCNAV)*

- Build a relation with several dealers of CHCNAV as PT.Smartech as a main dealer of CHCNAV in Indonesia's region.
- Execute the data processing of VTOL , SLAM and Aerial LiDAR also present it to the customer
- Operating Drones such as DJI M300, DJI M3M and also Fixed Wing (VTOL P330 CHCNAV) for data acquisition purposes
- Held a training for several customer for PIX4Dfields data processing for plantation purposes
- Perform a discussion and pitching regarsing the product's knowledge of CHCNAV

PT Adaro Energy Indonesia Tbk | *Engineer Intern*

- Utilized RTK GPS for precise field monitoring and data collection, ensuring compliance with *July – Aug* mine planning designs and enhancing site operational efficiency. *2023*
- Conducted volumetric analysis of truck counts and overburden at West Dump using Riegl VZ-2000i Terrestrial Laser Scanner (TLS), optimizing resource allocation and inventory management.
- Performed detailed accident site assessments involving heavy-duty machinery, producing accurate spatial data for incident analysis and safety improvement.
- Developed comprehensive hydrological and contour maps, including for PT PPA's New Dormitory area in Maburai, Tanjung Tabalong, to support water management and infrastructure planning.
Executed stockpile volume measurements using GEOVIA Surpac, MineScape, and RiScan Pro, and processed aerial imagery from DJI Phantom drone in Agisoft Metashape to create high-resolution topographic maps for strategic planning.

Ministry of Agrarian Affairs and Spatial Planning (ATR/BPN) | *Student Intern*

June – Aug 2022

- Executed high-precision land parcel measurements for PTSL registration using GPS RTK, Total Station (Topcon), and Waterpass, delivering accurate geospatial data critical for legal documentation and cadastral management.

- Developed and digitized comprehensive cadastral and village maps using AutoCAD and ArcGIS, providing essential geospatial layouts to support land administration and strategic spatial planning initiatives.
- Facilitated land staking and elevation surveys, applying advanced geomatics methodologies to enhance the Ministry's land management and regulatory compliance efforts.

LEADERSHIP & ORGANIZATION

Society of Petroleum Engineers ITS Student Chapter (SPE ITS SC) | Member

2021

- Engaged in technical workshops and industry seminars focused on geospatial analysis, resource extraction and environmental impact assessments, enhancing knowledge in areas applicable to the mining sector.

ITS Model United Nations Club | Head of Social Media Specialist Division

2023

- Led the strategic development of digital content, utilizing data-driven insights to enhance audience engagement media platforms, effectively increasing organizational visibility and outreach.

KEY SKILLS & PROFICIENCY Certification: 3D Point Cloud (2024), Machine Learning with Python (2024), Troubleshooting Techniques (2024)

Technical: Geographic Information Systems, Remote Sensing, Light Detection & Ranging, Terrestrial Laser Scanning, Surveying Instruments, Mining Software, Data Analysis & Programming, 3D Modeling & Mapping**Toolset:** ArcGIS, AutoCAD, LiDAR Data, TLS, GEOVIA Surpac, MineScape, RiScan Pro, Agisoft Metashape, DJI Phantom Drone, GPS RTK, Topcon, Waterpass**Language:** English (Proficient User), Bahasa Indonesia (Native Proficiency)