

# Waddan Aziz

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|https://waziz21.github.io/My-GIS-Portfolio/

## Profile

A graduate of Geodesy and Geomatics Engineering from Universitas Lampung, experienced in land surveying and mapping, both terrestrially and through aerial and remote sensing methods. Previously worked as a Surveyor and GIS Specialist at the Ministry of Agrarian Affairs and Spatial Planning (ATR/BPN) on the PTSL, PTPR, and NDL projects, as well as serving as a land acquisition officer for the Margatiga Dam in East Lampung. Participated in the development of a tourism map for the coastal and geothermal areas of Kunjir and conducted remote sensing data analysis.

## Work Experience

### Freelance Worker |Remote/ Indonesia

March 2025 – Present

- Produced digital vector and thematic forestry maps for clients, covering a total area of 10 hectares.
- Conducted building spread and density analysis to support urban planning assessments, utilizing ArcGIS for spatial clustering across a total working area of 167 sq km.

### Geomatic Specialist |PT EXSAMAP Asia |South Jakarta

December 2024 – February 2025

- Created over 50 large-scale (1:5000) vector maps covering approximately 900,000 hectares across Indonesia, using high-resolution satellite imagery to achieve 87% spatial accuracy.
- Conducted quality control to verify the accuracy of geospatial data prior to submitting digitized maps, resulting in high accuracy rate and ensuring timely delivery of over 50 maps.

### GIS Specialist |Ministry of ATR/BPN |Pesawaran, Lampung

April 2023 – December 2023

- Conducted land survey data collection and processing, supporting the production of comprehensive NDL maps for 6 villages and assisting in the delineation of accurate village boundaries for over 5,000 land parcels.
- Processed spatial data and produced comprehensive NDL maps for 15 villages, encompassing over 15,000 land parcels and almost 10,000 hectares area to support accurate village boundary definition and spatial planning.

### Surveyor |Planning Consultant for PUPR |North Lampung, Lampung

September 2022 – December 2022

- Led a survey team to assess 2,500 km of road sections and over 30 bridges in North Lampung, documenting conditions and designing detailed maps that supported the 2023 infrastructure maintenance budget and regional development planning for 2 projects.

### Drone Pilot |Freelance |Lampung

January 2022 – August 2022

- Executed aerial mapping missions covering 60 hectares of the Kunjir Beach and Geothermal areas; processed orthophotos to achieve a Ground Sampling Distance (GSD) of 2.5 cm/pixel for high-precision aerial map production.
- Produced aerial maps of landslide-prone areas in Kemiling, Bandar Lampung using DJI Phantom 3, enabling faster risk assessment and mapping coverage increase by 35%.

- Created and digitized 2 village boundary maps for Sinar Semendo with DJI Mavic Pro aerial imagery, improving boundary clarity and administrative efficiency.

### **Surveyor |Ministry of ATR/BPN |East Lampung, Lampung**

March 2021 – December 2021

- Conducted GNSS cadastral surveys for more than 10,000 land parcels totaling 2.000 hectares, directly facilitating the land acquisition (PBT) process for the National Strategic Project (Margatiga Dam).
- Produced PBT for the land acquisition of Margatiga Dam, facilitating the successful completion of over 5,000 land acquisition compensation process.
- Served as Surveyor for the PTPR Annual Project, collecting and analyzing data on 3 sites to ensure project accuracy and inform decision-making.

## **Academic Projects & Research**

- **Undergraduate Thesis** : Land Cover Change Modeling & Prediction for 2025 in SWP Cigombong using Cellular Automata – Markov Chain with TerrSet and GIS tools.
- **Research Assistant**: Conducted GIS-based analysis in photogrammetry and cartography courses.
- Authored **scientific papers and technical reports** on land use, spatial modeling, and remote sensing applications.

## **Education**

Bachelor of Engineering | Universitas Lampung    August 2018 – July 2024

- Geodesy and Geomatics Engineering – GPA 3.37/4.00
- TOEFL Score 530

## **Skills**

### **Hard Skills**

Cadastral Survey, GNSS Survey, Drone Pilot, Plotting, Data Processing, Digital Mapping, Large Scale Mapping, GIS, Remote Sensing

### **Software**

QGIS, ArcGIS, AutoCAD, Surfer, TerrSet, Agisoft Metashape, Envi, Sketchup.

## **Language**

Bahasa Indonesia – Native

English – Intermediate