

DEDEN ADIANSYAH

GIS Specialist

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CAREER SUMMARY

Result driven GIS Specialist and Applied Meteorology graduate with specialized expertise in environmental data interpretation, remote sensing, and advanced spatial analysis. Proven ability to leverage real-time environmental data and engineer geospatial models for environmental planning. Dedicated to utilizing advanced GIS frameworks to support sustainable land management and data-backed environmental stewardship.

EXPERTISE

Geospatial & Spatial Analysis | Remote Sensing & Satellite Imagery Workflows | High Conservation Value (HCV) assessment | High Carbon Stock (HCS) Assessment | Environmental Planning & Land-Use Mapping

TECHNICAL SKILLS

GIS Software (ArcGIS Pro, ArcMap) | Spatial Data Visualization & Dashboards | Digital Image Processing | Data analysis | Field Surveying and Drone-based Ground-truthing

PROFESSIONAL EXPERIENCE

GIS SPECIALIST | Yayasan Patembayatan Sinau Bumi | Bogor, ID

Aug 2024 – May 2026

Served as the geospatial analyst responsible for managing regional spatial datasets and executing advanced remote sensing workflows to support High Conservation Value (HCV) and High Carbon Stock (HCS) environmental assessments across sustainable land-use projects.

- Processed and analyzed multi-temporal satellite imagery using ArcGIS Pro to map and classify land cover types across regional conservation areas, providing high-accuracy spatial inputs that accelerated HCV/HCS environmental assessments.
- Managed and maintained the organization's central geospatial database by implementing rigid topology validation and data standardization protocols, successfully reducing spatial errors and ensuring seamless data accessibility for multi-stakeholder project teams.
- Engineered geospatial models and spatial analysis frameworks to simulate environmental planning scenarios, delivering actionable thematic maps that guided sustainable land management and environmental stewardship strategies.

LAND SURVEYOR INTERNSHIP | Koalisi Rakyat Untuk Kedaulatan Pangan (KRKP) | Indramayu & Bogor, ID Sep 2023 – Dec 2023

Executed field-based spatial surveys and community engagement initiatives to optimize agricultural irrigation networks and support the development of climate-resilient farming practices.

- Conducted extensive field surveys using handheld GPS units to track and map regional irrigation networks, producing optimized water distribution visualizations that enhanced rice field management efficiency.
- Facilitated Focus Group Discussions (FGDs) and participatory mapping sessions with local communities to identify climate-vulnerable agricultural zones, successfully promoting sustainable and climate-resilient farming frameworks.

EDUCATION

BACHELOR'S DEGREE | Applied Meteorology | IPB University

2020 – 2024