

# Muhamad Nazmi Yusri

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## PROFESSIONAL SUMMARY

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Dynamic and results-driven professional with 3+ years of experience in driving digital transformation in the construction and heavy equipment sectors. Specialized in Smart Construction solutions, with hands-on expertise in integrating IoT sensor data, drone-based mapping, and 3D spatial data to create actionable visual insights. Skilled in developing analytics dashboards that consolidate data from field reports, project tracking systems, and geospatial platforms to support better planning, safety, and resource management. Experienced in client engagement, technical demonstrations, and solution positioning. Passionate about bridging traditional workflows with digital tools to enhance visibility, efficiency, and decision-making.

## EXPERIENCE

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### Consultant - SMART Construction Solution

Sep 2023 – Present

*UMW Komatsu Heavy Equipment, Selangor, Malaysia*

- Developed data-driven visualizations and analytics dashboards using insights from IoT sensors, drone surveys, field reports, and project tracking systems to support better planning, safety, and resource management.
- Led the integration of Smart Construction technologies, including IoT-enabled equipment, drone-based topographic mapping, and geospatial workflows, to enhance site visibility and operational accuracy.
- Performed jobsite GPS localization, data conversion, and machine calibration in construction and mining projects, supporting accurate field data capture.
- Translated complex 3D spatial data from photogrammetry and point clouds into clear, actionable visuals for project teams.
- Delivered product demos, technical presentations, and internal trainings to promote adoption of digital solutions.
- Collaborated with sales and proposal teams to position Smart Construction solutions aligned with client needs and digital transformation strategies.

### Key Tools & Techniques:

Power BI, ArcGIS, Drone Mapping, Point Cloud Processing, 3D Machine Guidance, Digital Twin Familiarity, Data Visualization, Python, SQL, Project Analytics Dashboards

### GIS Executive | Technical Specialist

Feb 2021 – Aug 2023

*Urban Explorer Sdn Bhd, Shah Alam, Malaysia*

- Supported GIS-based asset management for TNB through data validation and spatial digitization of low-voltage assets.
- Contributed to machine learning-based tools (e.g., PavementAi, RAssetsAi) via data classification and geospatial integration.
- Designed workflows for indoor 3D mapping using vSLAM techniques, translating virtual mapping into real-world coordinates.
- Delivered demos and training to clients and stakeholders including government-linked companies and international firms.
- Provided technical input for geospatial project proposals and AI-enhanced workflows.

## Key Tools & Techniques:

Remote Sensing Workflow Support, Data Classification, vSLAM for 3D Mapping, Geospatial Data Handling, Image Labeling, Technical Presentation

## EDUCATION

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### Bachelor of Science (B.S.) - Geoscience

Sep 2017 - May 2020

Pennsylvania State University, USA, University Park,

- CGPA: 3.50/4.00 | Dean's List Spring & Fall 2019
- Relevant coursework: Geospatial Analysis, Remote Sensing, Computer Applications in Geosciences

### Foundation Degree - Science

Jul 2015 - Jul 2017

INTEC Education College, Shah Alam, Malaysia

American Degree Foundation Program & American Credit Transfer Program

- Science option

## DATA ANALYTICS RELATED PROJECTS

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Uber Data Analytics | Uber Data Engineering Project

<https://github.com/NazmiYusri/Uber-dataengineering-project>

Equipment Performance Monitoring Dashboard | Power BI

[https://github.com/NazmiYusri/equipmentperformance\\_review](https://github.com/NazmiYusri/equipmentperformance_review)

## TECHNICAL SKILLS

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- **Programming & Data Analytic Tools:** Python, SQL, Power BI, Tableau
- **GIS & Remote Sensing:** Asset Digitization, Drone Surveying, 3D Mapping, Spatial Data Validation
- **AI/ML Familiarity:** Data Labeling, Classification (PavementAi, RAssetsAi)
- **3D Visualization Tools:** Drone Photogrammetry, vSLAM Mapping, Digital Twin Familiarity
- **Soft Skills:** Technical Writing, Client Communication, Cross-Team Collaboration, Bilingual (Malay & English)

## CERTIFICATIONS

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Fusionex Applied Data Engineer Program

2023

Hands-On Workshop on Data Analytics and Machine Learning Using Python

2022

## HONORS & AWARDS

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James and Nancy Hedberg Scholarship

2020

PennState University (Energy and Mineral Science Department)

John & Elizabeth Holmes Teas Scholarship

2020

PennState University (Energy and Mineral Science Department)

Edwin Drake Scholarship

2019

PennState University (Energy and Mineral Science Department)