

PERSONAL INFORMATION

Minh Phung Do



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Nationality Vietnamese

BIO

Geospatial Specialist and Research Assistant with 4+ years of experience leading map operations for Vietnam's top ride-hailing platforms. Expert in large-scale dataset standardization (10M+ POIs and OpenStreetMap's ecosystem). Bridging industry expertise with academic research in urban mobility and while his field research approach: including eight hours weekly of on road data collection - reflects the commitment to evidence-based problem-solving essential for building Spatial Digital Twin Simulation for Complex Infrastructure Performance and Risk Assessments as his thesis.

RELEVANT WORK EXPERIENCE

December 2025 - Current

Research Assistant

VinUniversity - (Vinhomes Ocean Park, Gia Lam, Hanoi - vinuni.edu.vn)

- Conducting research on Digital Twin Simulation (GAMA) / Maps for Air Quality, Safety, Health Exposure and impact on street level of human mobility activity.

October 2022 - Nov 2025

Map Operations Team Leader

BE GROUP JSC - (29 Le Duan, Saigon, Ho Chi Minh City - be.com.vn)

- Architected and deployed proprietary map operations tools for daily address and routing data update. achieving 99% independence from third-party services with 10M POIs.
- Orchestrated a large-scale data ingestion pipeline for 35M street-level images (covering 100,000 km), to validate road network topology and routing graph accuracy.
- Conducted monthly field studies with local drivers, identifying key navigation pain points and presenting new features and training.
- Designed data models for temporal and event-based geospatial attributes to optimize routing algorithms in high-traffic zones.
- Led the technical validation of OpenStreetMap data, implementing rigorous logic checks for turn restrictions and navigable road graphs to ensure routing reliability for diverse vehicle profiles (motorcycle, car, truck)
- Maintained Technical Product Roadmap, Backlog for Map services with Engineering and Business Department

July 2021 - September 2022

Map Operation Associate

GRAB VIETNAM - (1060 Nguyen Van Linh, Tan Hung, Ho Chi Minh City - grab.com)

- Prototyped 9 UI/UX enhancements for internal GeoTools, optimizing the data-entry workflow to reduce processing time by 20% and input errors by 80% for 200 operators.
- Led a team of 11 to standardize 5 millions POIs' text format. Then finalized the address naming convention for 4 main regions of Vietnam.
- Enriched more tailored geocoding attributes for ride-hailing and delivery (time-based, vehicle-based, parking-based, image-based)

March 2021 - June 2021

Data Analytics & Digitization Intern

MERCEDES-BENZ VIETNAM - (693 Quang Trung, HCMC - mercedes-benz.com.vn)

- Developed VBA programs to save 27 out of 30 hours/month for 3 senior officers.
- Built OCR workflow to cut 40% time extracting structured-data from raw PDF invoices.

EDUCATION

September 2013 - November 2018

Bachelor of Engineering in Electrical Engineering and Information Technology

Vietnamese-German University (Binh Duong - Ho Chi Minh City, Vietnam)

PERSONAL SKILLS

Communication skills

- Technical Dissemination & Mentorship: Excellent presentation skills gained through leading internal bi-weekly knowledge-sharing sessions on world-class mapping techniques.
- Stakeholder Engagement: Strong ability to bridge technical and non-technical audiences, demonstrated by conducting monthly field studies with local drivers
- Knowledge Sharing: Proven commitment to education as a Translator and Moderator for "Kiến Học - khơi nguồn tri thức," sharing courses from top global institutions to a community of 48,000 followers, and mentoring for the Vietnam NASA Space Apps 2024 Hackathon.

Organisational/managerial skills

- Operational Leadership: Extensive managerial experience as a Team Leader at Be Group and Grab, supervising an 11-person team to standardize 10 million POIs.
- Strategic Planning: Skilled in cross-functional collaboration, working with Engineering and Business teams to sketch product roadmaps for map services independence.
- Community Management: Leadership capability demonstrated as an Admin for the Vietnam OpenStreetMap Community, overseeing data quality controls for urban transportation.

Job-related skills

- Advanced Geospatial Standardization: strictly applying industry best practices from Lyft (Training Decks) and Mapbox (Validation & Lab workflows).
- Data Quality Assurance (QA): rigorous QA methodology using specialized visualization tools to validate turn restrictions and lane connectivity, navigational attributes for heavy logistics, including turn lanes, max-height/weight limits, and truck-specific restrictions
- Field Research & Ground Truthing: Dedication to evidence-based problem solving through regular field research (8 hours/week) to validate environmental and routing models.

Digital competence

- GIS software (QGIS, ArcGIS) – Intermediate, obtained in 2021 with ESRI MOOCs
- Product Backlog (JIRA, Confluence) - Advanced, obtained at Be Group
- Programming (Python, SQL, Google AppScript) - Intermediate, obtained at Be Group
- Agent-based Modeling & Simulation (GAMA) - Beginner, obtained at VinUniversity
- Street-level Imagery Collection (Mapillary) - Advanced, obtained at Be Group

ADDITIONAL INFORMATION

Publications Honours and awards

- 2024, Certificate in OpenMapping Guru by Humanitarian OSM Team
- 2022, Certificate in Natural Resource Management by Fulbright University Vietnam
- 2019, Scholarship for 1-year exchange in Germany by DAAD
- 2017, AmCham Scholarship by American Chamber of Commerce
- 2017, Scholarship by Vietnam Summer School of Science

