VANIA DWI ADINDA

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EDUCATION

University of California, Berkeley

Master of Science, Systems Engineering with Graduate Certificate in Applied Data Science   Dec 2023

<u>Relevant coursework</u>: Analysis of Transportation Data, Applied Machine Learning, Transportation and Land Use Planning, Highway Operations, IoT Design for Smart Cities, Infrastructure Sensing and Modeling, Tech and the City: How to Get Urban Innovation Right (Haas School of Business)

Bandung Institute of Technology

Bachelor of Science, Civil Engineering   Jul 2019

PROFESSIONAL EXPERIENCE

Fehr & Peers   **Walnut Creek, CA, USA**

Transportation Engineer/Planner   Jan 2024 – Present

- Conducted traffic operations analysis with Synchro/SimTraffic, Vistro, Vissim, HCS, SIDRA
- Designed and optimized traffic signals
- Conducted travel demand forecasting using Cube, TransCAD, Replica, Streetlight
- Performed bicycle and pedestrian planning
- Carried out access and circulation studies
- Performed vehicle miles traveled (VMT) assessments
- Prepared technical reports, presentations, technical drawings, and other deliverables
- Conducted site visits and collected relevant data
- Coordinated with clients and stakeholders

Project highlights: US101/Trinidad Access Improvement TOAR, SR99/Standiford Interchange Improvement Project, City of Santa Rosa General Plan Update, Bridgehead Industrial Center Transportation Impact Analysis, North County Corridor Phase 1 Transportation Management Plan, I-580 Third Lane Design Alternative Analysis, Moraga Road Corridor Reconfiguration Analysis, MH Stanley Middle School Access Study

Arcadis IBI Group   **Boston, MA, USA**

Intelligent Transportation Systems (ITS) Engineering Intern   Jun 2023 – Aug 2023

- Coordinated with local municipalities and transit agencies for ITS project planning
- Supported research on Transit Signal Priority
- Prepared various maps on GIS

Project highlights: Connecticut Statewide ITS Architecture Update, CT Transit Corridor Improvement, Connecticut Department of Transportation Systems Engineering Stewardship Update, Massachusetts Department of Transportation On-Call ITS Support

Royal HaskoningDHV   **Indonesia & The Netherlands**

BIM Engineer, Assistant Project Manager   Jan 2019 – Jul 2022

- Coordinated BIM processes in 10+ infrastructure design & engineering projects
- Performed various civil design exercises using modeling & engineering software (e.g. Revit, Civil3D)
- Built internal tools (e.g. web app, data dashboard) for planning, design, and engineering purposes using Python
- Assisted project managers during proposal preparation and project execution stages

Project highlights: Amman Mineral Front-End Engineering Design, ICTSI Mandala Port Masterplan, Badak LNG Retrofit, MBJ Barging Study, Ambon Port Masterplan, Awak Mas Access Study

Jakarta Mass Rapid Transit (MRT)   **Indonesia**

Project Intern   May 2018 – Jul 2018

- Assisted project engineers in coordinating construction works for six underground stations

Bandung Institute of Technology, Faculty of Civil and Environmental Engineering   **Indonesia**

Teaching Assistant, Construction Management course, Traffic Engineering course   Aug 2017 – May 2018

- Provided learning assistance and software tutorial for 40 students

AWARDS

2019 ITB Civil Engineering Expo
First Winner, International Paper Competition   Jan 2019
"Bentonite Permeation as an Alternative Soil Liquefaction Mitigation Method"

2018 Royal HaskoningDHV Indonesia Innovation Challenge
First Winner, National Paper Competition   Jul 2018
"Integrated Multimodal Transportation Systems in the Greater Jakarta Area"

LEADERSHIP

Femme in STEM
Co-Founder, Executive Director   Feb 2018 – Jul 2019
A non-profit organization aimed at empowering and connecting female students majoring in STEM fields
- Led the team to conduct 2 conferences (200+ attendees), 2 panel discussions (40+ attendees), and a programming bootcamp (30 attendees)
- Built and maintained engagements with 2500+ audiences on social media, numerous community groups, and other external parties

TECHNICAL SKILLS

Programming: Python (Pandas, NumPy, Matplotlib, SciKit-Learn, NetworkX, GeoPandas, SciPy, Keras), SQL, Dynamo, VBA
Modeling Software: Synchro/SimTraffic, PTV Vissim & Vistro, SIDRA, HCS, Cube, TransCAD, AutoCAD, Civil3D, Revit, Navisworks, ArcGIS
Office/Design Software: Microsoft (Word, Excel, Power Point, Project, Power BI), Adobe (Illustrator, Premiere Pro); Figma, Canva
Language: English (fluent), Indonesian (native)