

VANIA DWI ADINDA

1836 Hearst Ave, Berkeley, CA 94703 | +1 (415) 608 6678
vaniadinda@gmail.com | <https://vdadinda.github.io/>

EDUCATION

University of California, Berkeley

Dec 2023

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

Relevant coursework: 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

Jul 2019

Bachelor of Science, Civil Engineering

PROFESSIONAL EXPERIENCE

Fehr & Peers

San Francisco Bay Area, USA

Transportation Engineer & Planner

Jan 2024 - present

- Conducted traffic operations analysis
- Conducted travel demand studies
- Conducted multimodal planning
- Performed vehicle miles traveled assessments
- Prepared technical reports, presentations, and other deliverables
- Coordinated with clients and stakeholders

Project highlights: US101/Trinidad Access Improvement TOAR, SR99/Stanford 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, USA

Intelligent Transportation Systems (ITS) Engineering Intern

Jun – 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

Indonesia

Project Intern

May – 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

Jan 2019

First Winner, International Paper Competition

“Bentonite Permeation as an Alternative Soil Liquefaction Mitigation Method”

2018 Royal HaskoningDHV Indonesia Innovation Challenge

Jul 2018

First Winner, National Paper Competition

“Integrated Multimodal Transportation Systems in the Greater Jakarta Area”

LEADERSHIP

Femme in STEM

Feb 2018 – Jul 2019

Co-Founder, Executive Director

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

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)