

# VANIA DWI ADINDA

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## 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*

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## 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, MJB 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

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## 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”

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## 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

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## 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)