

# VANIA DWI ADINDA

1836 Hearst Ave, Unit C, Berkeley, California 94703 | [vaniadinda@gmail.com](mailto:vaniadinda@gmail.com) | +1 (415) 608 6678

## EDUCATION

---

### University of California, Berkeley

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

Dec 2023

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

*Bachelor of Science*, Civil Engineering

Jul 2019

## PROFESSIONAL EXPERIENCE

---

### Fehr & Peers

**San Francisco Bay Area, CA, USA**

*Transportation Engineer/Planner*

Jan 2024 – Present

- Conducted traffic operations analysis
- Optimized traffic signals
- Conducted travel pattern analysis
- 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/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, 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, MBI 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)