

Petunia Anteater

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EDUCATION

Master of Science in Environmental Engineering

June 20XX

University of California, Irvine

GPA: 3.9

Bachelor of Science in Mechanical Engineering

June 20XX

University of California, Davis

ENGINEERING EXPERIENCE

Graduate Student Researcher, UC Irvine Department of Engineering

Sept. 20XX – Present

- Process NetCDF files containing ozone and PM2.5 concentrations with Matlab
- Set up traffic flow models for accidents with vehicle simulation software
- Quantify health risks and benefits from air pollution concentration differences with BenMAP
- Presented research findings to 300 attendees at regional Enviro Sci conference.

Intern, Greene Jay Engineering Co., Mission Viejo, CA

Jan. 20XX – June 20XX

- Developed algorithm to compute cost savings and carbon footprint reduction from renewable energy source installations
- Analyzed quarterly peak loads and demands from solar arrays in Central California to demonstrate consumer benefits
- Trained 5 interns how to operate demonstrative electrolyzer for hydrogen production evaluation

Research Intern, New Data Inc., Irvine, CA

May 20XX – Jan. 20XX

- Developed mechatronics data acquisition device to monitor a centralized electrolyzer unit
- Researched health endpoints and morbidity factors associated with ozone levels
- Implemented GIS software to develop regional emission projections
- Utilized GIS software to perform optimum routing for heavy-duty trucks among refineries

Laboratory Assistant, UC Irvine Department of Engineering

Jan. 20XX – June 20XX

- Utilized power tools and organized pipe fittings in a mini-fridge to liquefy hydrogen gas
- Constructed a condenser used to rapidly cool hydrogen gas after combustion reaction
- Extracted necessary items from McMaster and compiled them in several Excel part lists

SKILLS

- Software: CAD (Autodesk Inventor, Solidworks), Matlab, Fortran, C, R, ArcGIS
- Operating Systems: Windows, Linux