Danh Le

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EDUCATION

San Francisco State University (ABET accredited) **San Francisco, CA**
Bachelor of Science in Mechanical Engineering *August 2014 - May 2019*
GPA: 3.41/4.0
Courses: Thermal Power Systems, Mechanical Design, Project Management, Heat Transfer, Experimental Analysis, Principles of HVAC, Mechanic of Solids and Fluids, Cost Analysis, Materials and Manufacturing Processes, Control System, Mechatronic, SolidWorks, AutoCAD

WORK EXPERIENCE

Port of Oakland (via R&D Technical Services) **Oakland, CA**
Utilities Engineer *September 2019 – February 2020*

- Designed utility lines 2D CAD drawings using AutoCAD.
- Drafted rates for container cranes using Excel.
- Updated and recorded meter readings and calculate the energy consumed by customers.
- Inspected meter devices in the field.
- Checked manholes, new meters, old meters, and old buildings.
- Coordinated weekly schedules and managed communications with coworkers and department supervisor.

Port of Oakland **Oakland, CA**
Engineering Intern *June 2019 – August 2019*

- Designed an electric circuit map for Port of Oakland meter system using AutoCAD.
- Used Google Maps, GIS PortView, and Google satellites to locate and pinpoint meters, electric lines, and substations; implemented and drew it over onto AutoCAD meter map project.
- Learned how substation operates and how it is used for distribution to electric areas at Port of Oakland.
- Assisted with refreshing meter books and calculate the energy consumed by customers.
- Researched utility policies and procedures from other municipal utilities to develop draft utilities policy and procedure.

SKILLS

- Bilingual in English and Vietnamese.
- Detail-oriented with a positive attitude & eagerness to learn.
- Strong organizational, planning, and problem-solving skills.
- **Programming Skills**: MATLAB, Simulink, Arduino
- **Computer Skills:** SolidWorks, PTC CREO, Excel, Outlook, Word, PowerPoint, SharePoint, AutoCAD, Trane Trace 700, GIS PortView, Procore
- Certification: Procore Project Management (Credential: 64hhs2x8nwis August 2020)

PROJECTS

HVAC One Story Building Design (Trane Trace) *January 2019 – May 2019*

- Used Trane Trace 700 to calculate heating and cooling loads for a single-story, residential building prototype.
- Recommended and specified an appropriate HVAC system to meet the calculated load demands.

Motorized Ripple Float for Laying Cement (SolidWorks) *August 2018 - May 2019*

- Designed and built a motorized ripple floater that is use to smooth out wet cement.
- Used SolidWorks to design screw types, battery plate, base plate, motor mount, and outer housings of the device.
- Operated Bolton Tools 9 ½" X 32' Milling to cut metal sheets.
- 3D printed parts from SolidWorks CAD models using Ender 3 3D Printer.

Vertical Axis Wind Turbine (SolidWorks) *August 2018 – December 2018*

- Designed a vertical wind turbine for rural neighborhood environment and reduced the cost by 10%.
- Used SolidWorks to design the shaft, blades, bearing, gears, flange, then generate assembly drawings.
- Created BOM (Bill of Materials).
- Calculated ASME criteria, moment for outer shaft, preload of the bolt, life cycle of the bearing, and inner shaft FOS (Factor of Safety).

Uninstalling, Rebuilding, and Reinstalling a Car Engine (Project Management) *August 2018 – December 2018*

- Created a detailed management schedule for uninstalling, rebuilding, and reinstalling of a car engine.
- Used Excel to create a work breakdown structure diagram, bottoms-up estimating procedure, and precedence diagram.

One Story Floor Plan (AutoCAD) *August 2017 – December 2017*

- Designed a floor plan for a 1 story building with 3 bedrooms and 2 bathrooms using AutoCAD.
- Generated close up rooms and bathrooms floor plan so dimensions and areas are visible to read.