

Alejandro R. Davila

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OBJECTIVE

Pursue a professional career in energy engineering to continue contributing to global solutions.

EDUCATION

San Diego State University, San Diego, CA

B.S. Mechanical Engineering, Spanish Minor

December 2015

GPA: 3.35

Dean's List (four semesters)

ASME Student Member

Tau Beta Pi Engineering Honor Society

Presidential recognition of senior project

EXPERIENCE

Energy Engineer

January 2014 - December 2015

SDSU Industrial Assessment Center

San Diego, CA

- Applied engineering principals to effectively present energy conservation opportunities (ECO's)
- Obtained data from support equipment such as compressors, boilers, chillers, HVAC systems, ovens, etc.
- Utilized tools to assess workplace conditions
- Produced detailed engineering reports to be submitted to U.S. Department of Energy and clients
- Created and maintained relations with new companies and clients through phone and email consultation
- Compiled and prepared energy billing documentation using Microsoft Excel

Design Engineer

February 2015 - December 2015

W.E. Do Good

San Diego, CA

- Designed, drafted, and constructed prototype of manual thresher to increase agricultural efficiency in Ethiopia
- Machine shop and power tools manufacturing
- International correspondence with foreign manufacturing facilities

Supervisor

August 2014 - December 2015

Aztec Recreation Intramural Sports

San Diego, CA

- Provided on-site supervision while enforcing program policies and procedures
- Increased client retention rate by providing excellent, professional, and informed customer service
- Led training clinics and provided coaching for new staff

Relevant Coursework

August 2011 - December 2015

Engineering Laboratory at SDSU

San Diego, CA

- Power plant optimization - design, heat exchanger sizing, pressure drop calculations
- HVAC system design - project manager, heating/cooling load calculations, equipment selection, cost analysis
- Solar panel optimization - determine optimal configuration for PV system at San Diego State
- Engineering economics case study - decision tree, alternative selection, depreciation

SKILLS

DOE Software tools (MotorMaster+, PHMT, etc.)

Manufacturing facility auditing

SolidWorks modeling

Bilingual: English, Spanish

AutoCAD drafting

Project management

Microsoft Office Suite

Technical writing

Customer service (6+ years)

Exceptional verbal and written communication