

Andrew Petersen

Cumulative GPA: 3.08

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6749 West Caley Pl, Littleton, CO

Education

New Mexico Institute of Mining and Technology (NMT), Socorro, NM

B.S. in Environmental Engineering

Graduation Date: December 2017

Experience

Senior Design Project – New Mexico Institute of Mining and Technology Environmental Engineering Department, Socorro, NM

- Technical thesis with design aspect of solar generation facility
 - Research of industry standards for a variety of solar generation and energy storage systems
 - Design of industry standard solar generation facility with integrated energy storage systems
- Independent topic selection, research, and design
 - Coordinated and briefed thesis advisor on research and design progress
- Responsible for independently managing and tracking research and design milestones

Temporary Lab Assistant – New Mexico Institute of Mining and Technology Environmental Engineering Department, Socorro, NM (Summer 2017)

- Selected by professor to join graduate team in membrane water treatment project based upon academic abilities
 - Designed and constructed pumping and piping mechanisms for pilot scale water treatment system

Park Maintenance – Foothills Park and Recreation District, Littleton, CO (Summer & Winter 2016)

- Responsible for the cleanliness, organization, and usability of park assets
- Operated a variety of machinery ranging in size from handheld tools to heavy machinery
- Responsible for independently managing and completing necessary tasks

Technical Internship - CleanSpark, Poway, CA (Summer 2015)

- Authored white papers and research papers to support marketing efforts
 - Examples: Energy Management and Hospitality, Chemical and Mechanical Energy Storage, and Deep Cycling Analysis
- Lead research and development project to optimize diesel generator operation
 - Four member engineering team
 - Diesel generator optimization through energy storage integration and energy management & optimization
 - Theoretical results showed drastic decrease in fuel consumption
 - Equations and methodology used in modeling following internship period
- Developed financial feasibility models to accompany research and development project
 - Modeled pricing of energy storage and theoretical savings with optimization with the addition of projected pay off periods to support feasibility of product to future clients
- Delivered and attended presentations and meeting within the company and with potential clients
- Topics and areas of research during the course of the internship include: micro-grid technologies, fractal-grid technologies, energy management systems, energy storage systems, and application of sustainable energy systems into popular industries

Cashier & Customer Service Specialist – REI, Littleton, CO (Summer & Winter 2014)

- Performed customer liaison functions which included; customer satisfaction, assistance, and feedback coordination. Efforts resulted in repeat business from positive customer experiences.
- Managed customer service inquiries

Inquiries ranged from returns & orders to resolving customer complaints

Courtesy Clerk – King Soopers, Littleton, CO (November 2011 – July 2013)

- Performed customer liaison functions which included; customer satisfaction, assistance, and feedback coordination. Efforts resulted in repeat business from positive customer experiences.
- Responsible for store cleanup, restocking, and organizing of store products

Skills

Proficient with Microsoft office suite

Proficient with SolidWorks

Proficient with AERMOD software

Proficient with POLYMATH software

Experience in Air Quality, Waste Water, and Water Quality lab work

Additional

Successful completion of Fundamentals of Engineering (FE) exam

Offered graduate school opportunity based on academic abilities/ accomplishments

Graduated with Cum Laude (honors)