

Matthew G. Kollier

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EDUCATION:

B.S. degree in Environmental Resources Engineering (ABET Accredited)

Humboldt State University (HSU), Arcata, CA

Expected May 2020

Relevant Coursework: Fluid Mechanics, Hydrology, Environmental Health and Impact Assessment, Transport Phenomena, Intro to Water Quality, Applied Hydraulics, Solar Thermal Engineering

ENGINEERING EXPERIENCE

Boiler Upgrade to Increase Efficiency Analysis

Engr 473: Energy Building Analysis (Class Project), HSU

Spring 2015
Arcata, CA

- Obtained current boiler efficiency using gas meter data
- Utilized eQuest to compare alternative boiler's performance and economics
- Evaluated energy sensitivity analysis with respect to building's lighting load, plugloads, and occupancy levels

Small Wind Energy System with Condensation Unit

Engr 326: Computational Method III (Class Project), HSU

Fall 2014
Arcata, CA

- Conducted cost and benefit analysis of a 15 kW windturbine with a condensation unit
- Calculated water production of a condensing unit
- Conveyed results and observations to engineering students

Practivistas Dominicana

Project Liaison

Summer 2014
Dominican Republic

- Cooperated closely with communities to facilitate communication between students and community
- Participated in appropriate technology projects involving construction with recycle materials
- Coordinated labor and construction projects and materials

2014 Humboldt County's Infrastructure Report Card

Editing Committee

Spring 2014
Arcata, CA

- Participated in meetings with ASCE North Coast Professionals and City officials
- Assisted with document formatting and organization
- Analyzed data to produce visual representations

SPECIAL QUALIFICATIONS:

Software: eQuest, Microsoft Office Suite, REM/rate, AutoCAD, Fortran 90, LTSpice.

Equipment: Electronic equipment (ex.multimeter,oscilloscope), Water Quality instruments (ex.turbidity,salinity)

HONORS & AWARDS:

ASCE Mid Pacific Competition, Wastewater Treatment

First Place (Water Quality)

April 2014
Fresno, CA

- Provided ideas for final design
- Orchestrated water quality test
- Contributed in design construction

PROFESSIONAL AND STUDENT MEMBERSHIPS:

Environmental Resources Engineering Student Association (ERESA), ASCE Student Chapter, HSU

President, 2015- Present

Fundraising Coordinator, 2014

American Society of Civil Engineers (ASCE), Student Member, 2014 - Present

Society of Hispanic Professional Engineers (SHPE), Student Member, 2014 - Present

COMMUNITY INVOLVEMENT:

Food for People (25 hours), Eureka, CA, Dec – Jan 2015