MIA SHEPERD

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OBJECTIVE

I am a nonconventional engineering emerging professional that is passionate about sustainable building design for the developing world. My love for community and sustainability has helped me understand the importance of appropriate design. I hope to continue working to and broaden my experience of sustainable development through hands-on projects with communities and a supportive team.

EDUCATION

Cal Polytechnic State University San Luis Obispo
B.S. in General Engineering | Graduated June 2016
Structural Engineering and Environmental Design

CURRENT PROJECTS

Journeyman International | Empowering Villages | Kigali, Rwanda
Working with the Kigali community to find ways the renewable energy being built through Afritech Energy can empower villages with projects designed by students/emerging professionals of Journeyman International

The Emerson House Living Building Challenge | Portland, OR
Completing the LBC and LCC documentation for a high-performance, community space for the NE Portland neighborhood

City Repair Sleeping-Pod Design Build | Portland, OR
Brainstormed and constructed small POD (People for Design) structures for the houseless community in Portland, Oregon with up to 90% of recycled material and current code compliant housing standards

Villiage Building Convergence | Portland, OR
Planned and organized a ten day event supporting localized communities to create place-based expressions like earthen buildings, ecological landscaping, and community based art projects like Intersection Repairs

Tanzanian Vocational School
Designing the passive cooling/heating, lighting and structure of classrooms for newly constructed vocational school in Tanzania

Photovoltaic Solar Cooker
Designing and building a photovoltaic energy powered solar cooker for developing countries. The solar cooker is a continuing project working with AidAfrica to implement in Uganda

FAMILIAR SOFTWARE

Illustrator, InDesign, Photoshop
AGi32 Lighting Analysis
AutoDesk Revit, CAD
Grasshopper
Rhino
EnergyPro
IES

SKILL SETS

Leadership
Communication
Teamwork
Quick Learning
Organization
Analysis
Adapation

LANGUAGES

English (Primary)

WORK EXPERIENCE

Luma Lighting Design D1 | Portland, OR
- Worked in Revit and AutoCad to design lighting placement and circuitry in commercial buildings
- Used AGi to calculate light uniformity for designs

To Trash or Not to Trash
- Working with Cal Poly's theatre department to implement more sustainable practices for set design
- Created a mobile space for materials to be recycled properly
- Quantified the trash saved due to this program over a year

SunRun Field Marketing Associate | San Luis Obispo, CA
- Conducted lead generation through events and canvassing in the San Luis Obispo County
- Educated prospective clients on roof and ground mount solar system
- Facilitated customer service solutions using SalesForce

UC San Diego Sustainability Resource Center Intern | San Diego, CA
- Managed administrative responsibilities at the Sustainability Resource Center
- Assisted Facilities Management with LEED certification

PAST PROJECTS

President of Zero Waste Club
- Initiating Cal Poly's CSU Sustainability Guidelines, ncluding a variety of policies addressing sustainability
- Spearheading a campus mandate requiring 80 percent of university trash not be sent to landfills

Winner of CABEC's Residential Energy Modeling Competition | Cal Poly San Luis Obispo
- Competed in CABEC's first ever Residential Energy Modeling Competition, open to all students currently enrolled in a college or university in California
- Given a set of plans, specification and guidelines to create an energy model using any of the California Energy Commission (CEC) approved compliance software tools
- Scored based on ability to accurately and quickly model a simple single family residential new construction project

Solar Decathlon Architectural Engineering Team
- Designing and constructing a cost-effective, energy-efficient and attractive dwelling
- Drafting and designing the house Revit 2015

Greenovations
- Weeklong California State University competition promoting the improvement of on-campus recycling and composting practices.
- Petitioned for a $1000 grant from California State Student Association's Greenovations fund
- Coordinated use of these funds to acquire composting bins and equipment
- Led over a hundred volunteers, along with student government, to promote and assist with implementation