

PROFESSIONAL SUMMARY

Bachelor in Physics Engineering and Certified in Building Climatic Design with three years of experience in developing green buildings projects related with residential PV Systems, building performance, and weather data analysis. Motivated, self-starter, fast learner, positive, resilient and professional attitude. Committed with environmental protection and energy saving.

QUALIFICATION

- Management of multidisciplinary projects
- Advanced skills on MS Office.
- Knowledge of AutoCAD, Google Sketch UP and building energy simulation program as EnergyPlus, DesignBuilder and Ecotect
- Open to learn new things and excited to share knowledge with others.
- Familiarity with the LEED rating systems.
- Exceptional judgment and critical thinking in high pressure and stressful situations.
- Spanish native speaker.

RELATED EXPERIENCE

Building Energy Engineer

Jan 2015 to Dec 2015

SOLAR DECATHLON Latin America & Caribbean Cali 2015 – Team AYNÍ

- Performed project passive cooling systems, shadows control and natural daylight designed for a hexagonal wood house designed for a hot wet climate, utilizing ENERGYPLUS, ECOTECT and DIALUX.
- Designed of the HVAC system for two conditioned area of 20 m2 each one.
- Liaised with architects and engineers to facilitate the achievement of project sustainability objectives
- Analyzed the energy and thermal performance based on simulation of the house with ENERGYPLUS and DESIGNBUILDER.
- Built a 80m2 social, efficient and sustainable prototype that operate 100% with solar power, with a rain and grey water treatment system.
- Prepared technical summary reports

Energy Efficiency Engineer

Jan 2013 to Dec 2014

Center of Renewable Energy – UNI

- Designed and analyzed the thermal performance of residential and public building's envelope based on passive cooling and heating systems, shadows control and natural daylight with EnergyPlus, creating comfortable hydrothermal conditions for the owner into their buildings.
- Analyzed and reduced of the energy consumption in residential building with EnergyPlus. Resulting in reduced energy consumption by 40 percent.
- Examined the thermal performance of different kind of concrete flat roofs based on energy modeling software and laboratory test

Engineering Intern

Jan 2012 to Dec 2012

Center of Renewable Energy - UNI

- Evaluated the electrical characteristic of PV systems components based on the 2010 Peruvian National Electrical Code.
- Designed, installed and analyzed a new clay stove which heats the indoor air in buildings based on the energy efficiency utilizing energy modeling software and laboratory test.
- Assisted Senior Designers with building performance analysis based on energy modeling software and direct measurements.
- Researched green building technologies and materials.

EDUCATION

CERTIFIED IN BUILDING CLIMATIC DESIGN AND ENERGY EFFICIENCY

Dec 2014

Universidad Ricardo Palma, Lima, Peru

Academic record: Top fifth of the class

Relevant Courses: Architectural Environmental Conditioning, Climate and Architecture, Sun and Architecture, Thermal Comfort and Energy Efficiency in Buildings.

BS PHYSICS ENGINEERING

Dec 2011

Universidad Nacional de Ingeniería (UNI), Lima, Peru

Academic record: Top fifth of the class

Relevant Courses: Statistical Data Processing, Thermal Physics I and II, Digital Electronics, Solar Engineering, unconventional energy, and design and evaluation of projects

PERSONAL INTEREST, HOBIES, AKNOWLEDGMENTS, AND VOLUNTEER ACTIVITIES.

- Playing musical instrument: guitar
- Development of social support projects in developing countries.
- Traveling exploring developing countries
- Volunteering to VILLAGE EMPOWERMENT PROJECT in January and June 2011 as a Technical support in PV systems maintenance.
- Volunteering to AYNÍ PROJECT from September 2014 to currently performing green building design projects in developing countries of Latin America in partnership with the government and universities to promote research in the field of sustainable construction.