JASMINE GARLAND

B.S. Building Science l Honors student l Appalachian State

PERSONAL MISSION//

To combine passions of the environment and intergenerational equality, with technical thinking skills to innovate sustainable solutions within the built environment.

CONTACT DETAILS //

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SKILLS AND ABILITIES //

- Green Building: Student.
- Idealist and realist: Utilizing creativity in the technical settings.
- Teamwork: Sustainability requires unity and awareness of all mindsets.
- Leadership: Lead by example.
- Communicator: Educating about energy dependency and environmental cost.
- Adaptable: An avid backpacker with a willingness to tackle unexpected challenges on trails and technical settings.

VOLUNTEER AND COMMUNITY EXPERIENCE //

- Appalachian Energy Summit Attendee | 2018
- Technology Student Association | Regional Junior Solar Sprint Judge | 2018
- Habitat for Humanity | monthly build day volunteer | Present.

ACADEMIC PROFILE //

Appalachian State University

Major: Building Science, Sustainable Building Systems
Minor: Sustainable Technology

4.0 GPA
Sustainable Technology and the Built Environment Honors Student
Graduation date: May 2020
Relevant Courses: Architectural and graphic design, building services, building science, analytical physics, and sustainable technology electives

RESEARCH INTEREST //

Architecture in virtual reality and 3-d modeling.

Lighting and Perception in the Built Environment.

EXPERIENCE //

Renewable Energy Initiative

Board Vice Chair | December 2018 - Present
Project Management | April 2018 - Present
Public Relations Chair | April 2018 - December 2018

The Renewable Energy Initiative (REI) is a student led and funded board of students who plan, run, and manage the renewable energy systems of Appalachian State University with a budget of approximately $175,000.00 per academic semester. Students utilize visionary and technical skills, while gaining project management and data management abilities.

NEXUS

Research | January 2019 - Present

With interest in light utilization in green house design to extend growing seasons, NEXUS is a multidisciplinary team whose research lies at the intersection of agriculture, energy, and natural resources.

Student Government Association

Senator | January 2019 - Present

In defense of sustainable principles, Representing sustainable behaviors, education, energy efficiency, and renewable technologies as a student senator. The mission is to hold the university accountable to the commitment to sustainability through the voice of the student body.

Team Sunergy

Appalachian State Solar Vehicle Team | Production of second-generation solar car | January 2018 - January 2019

Running on shine, Appalachian State Solar vehicle team has been an opportunity to expand knowledge outside of residential systems. Beginning on the electrical subdivision, then being recruited to mechanical systems, this has been an opportunity to push personal boundaries and comfort-zones, research, and collaborate with peers. Contributions: MPPT's, Lithium Battery Pack, 3-D printing, Carbon Fiber Body molds.

Assistant

Physical Principles of Sustainability | Fall 2018 Academic Semester

Combining physics with sustainability, this course details energy and power systems in the areas of climate change, power generation cycles, and infrastructure.

UPCOMING ACHIEVEMENTS //

Leadership Independent Study

Spring 2019 Academic Semester

A student inspired and advisor approved look at leadership in the green building industry. This course entails taking the LEED Green Associate exam, and interviewing sustainability leaders within public domains.

Korea and Taiwan Adventures in Sustainable Energy, Architecture, and BIM in Construction

May 13 - May 28, 2019

Sustainable Energy and Architecture in East Asia | Energy Efficiency and BIM in Korea and Taiwan.