

George Lewis

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EDUCATION

Appalachian State University, Boone, North Carolina

- M.S. in Technology Aug 2017 – May 2019
 - Cumulative GPA: 4.0
 - Focus: Appropriate Technology (Photovoltaics)
 - Scholarships: In-State Tuition Scholarship, Provost's Fellowship

Virginia Polytechnic Institute and State University, Blacksburg, Virginia

- B.S. in Materials Science and Engineering Aug 2012 – May 2016
 - Cumulative GPA: 3.70
 - Graduated with University Honors

PROJECTS & LEADERSHIP ROLES

Webmaster, Renewable Energy Initiative, Appalachian State University

Jan 2017 – Present

- Keep website up to date: Rei.appstate.edu
- Participate in committee meetings, events, and projects in the REI

Project Manager, 17 kW photovoltaic installation, Etlan, VA

Aug 2017 – Jan 2018

- Designed, procured equipment, coordinated labor, and installed the ground-mounted grid-tied system up to NEC 2011 standards.

Graduate Student Association Senator, Appalachian State University

Sep 2017 – Aug 2018

- Represent the Sustainable Technology Department. Member of Grants Committee to review graduate students' requests for funding new research.

WORK EXPERIENCE

Energy Efficiency Research Intern | Appalachian Voices

Jan 2018 – Present

- Compiling data for the Action Center website - to allow utility customers or members to discover energy efficiency rebate programs offered.

Graduate Research Assistant | Appalachian State University

Aug 2017 – Nov 2017

- Advisor: Dr. Jeff Ramsdell
- Energy modeling three government built homes in a South African township of Bloemfontein using Openstudio, EnergyPlus, and Sketch-up

Youth Conservation Corps, Crew Leader | DCR, Americorps

Jun 2017 – Aug 2017

- Led two teams of 10 High-school-aged boys for three week sessions
- Managed house chores and trailwork, state park maintenance, roadside clean-up, building picnic benches, and putting in fence posts

Energy Programs Intern | Community Housing Partners

Jun 2016 – Sep 2016

- Assisted in the management of utility-funded programs: streamlined payment process, calculated energy savings impact, and automated report generation for management use.
- Created a kWh savings calculator for weatherization work in Excel.
- Assisted in energy audits and obtained certification as a Professional Building Analyst.

Bartender and Staff | Rising Silo Brewery

Nov 2015 – Sep 2016

- Served beer and much more at a farm brewery in Blacksburg. Volunteered for the Masa Monday charity meals raising money for the SNAPS program: organized Earth day event, recruited volunteers, prepared, and served food.

Research Assistant | Sustainable Biomaterials Dept. Virginia Tech

Jun 2015 – Jul 2015

- Faculty Advisor: Charles Frazier
- Collected, tested, and analyzed samples of yellow poplar for biogenic formaldehyde content

Researcher | Advanced Manufacturing Lab, Oak Ridge National Lab

May 2014 – Aug 2014

- Prototyped an Arduino-controlled IR lamp attached to large-scale 3D printer.
- Used polymer science, thermodynamics, coding, and control theory to optimize interlayer adhesion while 3D printing.

VOLUNTEERING

Habitat for Humanity

Jun 2016 – Present

- Participate in build-days

New River Valley Bike Kitchen

May 2015 – Dec 2017

- Repaired and documented donated bikes. Raised \$500 on a cross-country bicycle tour.