

# Ekow Atiemo-Addo

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## Objective

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Seeking to utilize sustainable development principles, my knowledge of power systems, and my technical proficiency in circuit design to address complex environmental challenges and innovate efficient green energy systems.

## Education

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### Oregon State University

Expected June 2027

*Bachelors of Science, Electrical and Computer Engineering (GPA: 3.44 / 4.00)*

Corvallis, OR

- **Relevant Coursework:** Digital Logic Design, Electronic Circuit Design I, Technical Writing, Electrical Fundamentals III

*Bachelors of Agricultural Science, Sustainability*

- **Relevant Coursework:** Sustainable Communities, Introduction to Environmental Economics and Policy, Sustainability Assessment

## Experience

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### Undergraduate Research, Scholarship, and the Arts

Jan 2025 – Current

*Undergraduate Research Assistant*

Corvallis, OR

- Aided in the construction of a Thermochemical Energy Storage unit that utilizes an Oxidation Reactor.
- Delegated tasks among three other graduate students and another undergraduate student on a weekly basis.
- Conducted repeated flowrate tests to determine reactor efficiency.
- Preparing to present a poster which will showcase project findings at a university research symposium

### National Society of Black Engineers (NSBE)

Sep 2024 – Current

*Executive Chair*

Corvallis, OR

- Facilitated partnerships with university leadership, industry professionals, and club representatives to plan impactful panel events.
- Organized bi-weekly meetings throughout the year and communicated amongst other officers.
- Attended conferences with the goal of expanding professional networks and strengthening relationships.
- Aided in the delegation of chair member responsibilities to ensure the success of OSU's NSBE Chapter.

### Louis Stokes Alliance for Minority Participation (LSAMP)

Sep 2024 – Jun 2025

*Mentor / Member*

Corvallis, OR

- Mentored 4 underrepresented STEM students throughout the year, providing them with academic resource and personal guidance to ensure their success.
- Built long lasting relationships with 100+ other minority students during LSAMP's jump start program.
- Actively promoted diversity and inclusivity in STEM fields.
- Collaborated with OSU faculty with the hope of further developing mentees through career readiness pathways.

## Projects

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### Two Channel Working DC Power Supply | *Elec. Circuit Design*

- Designed and built a dual-channel linear DC power supply capable of supplying up to 900mA per channel.
- Implemented rectifier and filter circuits using diodes, capacitors, and transformers.
- Added external voltage adjustment (via potentiometers) and a power indication LED as usability features; validated performance via oscilloscope measurements.

### Sustainability Transformation Study | *Sustainable Communities*

- Brainstormed realistic transformation strategies for Ollolai, Sardinia, including green development and eco-tourism initiatives, in collaboration with a team of seven.
- Conducted a Gap Analysis against UN Sustainable Development Goals, identifying deficits in job availability, income, and environmental health.
- Proposed a three-year implementation roadmap focused on strengthening social capital and linking local government with external resources.

## Technical Skills

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**Languages:** C++, Python, Assembly

**Software:** KiCad, LtSpice, MATLAB, Microsoft Office

**Soft Skills:** Communication, Collaboration, Time Management, Organization