

# YOYINSOLA IBIKUNLE

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## EDUCATION

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Aug 2012- May 2016

**Carnegie Mellon University**- Pittsburgh, PA

Bachelor of Science in Chemical Engineering

Expected graduation: May 2016

GPA: 3.62/4.00

College of Engineering Dean's List: Fall 2012, Spring 2013, Fall 2014

## WORK EXPERIENCE

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May 2015- Aug 2015

**Dow Corning Corporation**- Midland, MI

*Product Development Intern*

- ⊙ Conducted a solution polymerization reaction in which a number of key process and formulation variables were examined to determine their influence on polymer structure
- ⊙ Operated on both small (lab) and intermediate size reactors to gain insight on scalability
- ⊙ Documented key findings in an oral presentation and technical report

Feb 2013 - Dec 2015

**Carnegie Mellon University**- Pittsburgh, PA

*Peer Tutor in Math and Sciences*

- ⊙ Clarify difficult problems students encounter
- ⊙ Stimulate active thinking among students
- ⊙ Aid students on a personal level as well as in groups totalling up to 15 students

## RESEARCH/ACADEMIC PROJECTS

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Aug 2015- Dec 2015

**Carnegie Mellon University**- Pittsburgh, PA

*Research Assistant*

- ⊙ Collaborate with Dr. Meagan Mauter's group on Capacitive Deionization (CDI) water treatment technology to improve energy efficiency of the system
- ⊙ Assess CDI performance via salt removal efficiency, adsorption rate, and adsorption capacity

Sep 2015- Dec 2015

**Carnegie Mellon University**- Pittsburgh, PA

*Chemical Process Systems Design*

- ⊙ Proposed a preliminary design for an ethylene hydration plant based on an extensive literary review
- ⊙ Constructed a flowsheet in Aspen for accurate mass and energy balances
- ⊙ Maximized energy efficiency of plant with heat integration
- ⊙ Documented learnings in a memorandum

## LEADERSHIP ROLES

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Aug 2015- Present

**Building Alliances for Success in Engineering**- Pittsburgh, PA

*Program Coordinator*

- ⊙ Recruit upperclassmen and underclassmen engineering students invested in mentoring
- ⊙ Match upperclassmen with underclassmen students to foster relationships
- ⊙ Develop mentoring activities for 20 members
- ⊙ Serve as official spokesperson for all vested interests of BASE as an organization

May 2014- Present

**National Society of Black Engineers**- Pittsburgh, PA

*Academic Excellence Chair*

- ⊙ Organize academic and professional development workshops for 50 chapter members
- ⊙ Facilitate weekly study sessions to support academic growth for 30+ general body members

## SKILLS

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**Laboratory:** Nuclear Magnetic Resonance, Gas Chromatography

**Software:** Matlab, Aspen, Python, Microsoft Excel, Microsoft PowerPoint