

Chanel Beebe

beebe@purdue.edu
(313) 399 – 5114

EDUCATION

Purdue University West Lafayette, IN Anticipated Graduation: 2020
Degree: Ph. D. Engineering Education
Advisor: Morgan Hynes

Second year PhD with interests in using maker spaces and entrepreneurship to broaden participation in engineering by broadening the context of engineering thinking. Also interested in building a more empathetic engineer capable of addressing the social justice concerns of future generations.

University of Michigan Ann Arbor, MI 2014 **GPA: 3.066 / 4.0**
Degree: B.S.E Industrial and Operations Engineering

RESEARCH EXPERIENCE

Purdue University, FACELab *Spring 2014*
Research Advisor: Morgan Hynes

- Lab focuses on using maker spaces to broaden participation in engineering
- Developed curriculum for 9 day Everyday Engineering Camp in which 9-17 year olds engaged with every step of the design process to address problems in their immediate communities
- Developed Make an Engineer Activity in which participants build a model of an engineer using their personal interests and skills to solve global engineering problem

Purdue University, Engineering Explorer's Grant *Fall 2014*
Research Assistant under Stephen Hoffmann

- Conducted research on the experience of underrepresented and international students in first year engineering teams.
- Developed survey to quantify student experiences in teams based on group dynamics frameworks.

Duke University, Mary Lou Williams Center for Black Culture *Fall 2014*
Graduate Research Assistant: Durham, NC

- Conducted informal focus groups to understand African American Student Experience
- Developed outline of needs of African American Students
- Began University wide effort to collect data on African American Student Satisfaction
- Co-Lead Programs on African American Women Student Experiences

University of Michigan, Engaged Advising Learning Grant *2013-2014*
Project Coordinator Ann Arbor, MI

- Conducted interviews and focus groups to develop a better understanding of the current state of advisor-student relationships
- Conducted research on student engagement within the classroom
- Developed a comprehensive rubric for faculty to use in evaluating and quantifying student performance
- Helped advisors to see a clearer and more detailed picture of the student's performance

PUBLICATIONS

Hynes, M., Holly, J. Hira, A., Joslyn, C., **Beebe, C.** (2016) What Do YOU Like to Do?: Exploring Pre-College Students' Career Aspirations and Perceptions of Engineering (Work in progress)

Hynes, M., **Beebe, C.** (2016) MAKER: A Game to Make Engineering

WORK EXPERIENCE

The Boeing Company, Consumer Aviation Services Lean Enterprises *Summer 2013*
Industrial Engineering Intern: Renton, WA

- Completed Shingo training and developed a better understanding of perfected business practices

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- Designed and developed a visual management system for managing team projects that was eventually implemented to over 200 employees
- Constructed Values Stream Mapping of change request process and completed root cause analysis to eliminate security issues
- Conducted time studies on Kent Distribution Center Receiving Process
- Facilitated and developed accelerated improvement workshop that decreased receiving time by 50%

Dow Chemical Company, *Hydrocarbons Improvement Team*

Summer 2012

Supply Chain Intern: Houston, TX

- Facilitated informational discussions with international teams to gather needs of stakeholders and design informational dashboard
- Reevaluated key corporate processes to streamline work flow by building decision trees and flow charts
- Built a balance sheet to manage \$500 million in Canadian Ethylene sales

Wal-Mart Stores Inc., *Information Systems Department*

Summer 2011

International Department Intern: Bentonville, Arkansas

- Developed strategies to successfully integrate a recently acquired company
- Oversaw budgets of \$200 million+
- Interfaced with international groups

SERVICE AND LEADERSHIP

Purdue University

- American Association of Engineering Education (Secretary)
- Engineering Education Graduate Student Association (Secretary)
- Purdue Black Cultural Center: Haraka Writers (Spoken Word Poet)
- National Society of Black Engineers (Member)
- Black Graduate Student Association (Member)
- The People's Organization Working to End Racism (POWER) (Founder)

University of Michigan

- National Society of Black Engineers: Vice President (2012-2013), Finance Chair (2011-2012)
- Office of Academic Multicultural Initiatives: Academic Success Partner to 6 protégés (Present)
- Center for Educational Outreach- Project Inspire: Student Speaker (2009-Present)
- American Association of University Women, National Student Advisory Council (2010-2011)

UNDERGRADUATE AWARDS AND HONORS

- Spirit of Martin Luther King Jr. Leadership Award (College of Engineering – 2014)
- Outstanding Female on Campus (Alpha Phi Alpha Fraternity Incorporated – 2013)
- New Student Achievement Award (College of Engineering - 2009)
- Gates Millennium Scholarship (Bill Gates Foundation-2009)
- Rogel Match Scholarship (U of M-2009)