Chioke Harris

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EDUCATION

The University of Texas at Austin; Austin, TX — Expected Spring 2013
Ph.D. Program, Mechanical Engineering
National Science Foundation Graduate Research Fellow

The University of Texas at Austin; Austin, TX — Summer 2010
M.S. Mechanical Engineering — GPA – 3.67
Thesis Title: "A MIxed-Integer Model for Optimal Grid-Scale Energy Storage Allocation"

Brown University; Providence, RI — Spring 2008
B.S. Mechanical Engineering — GPA – 3.68

ENGINEERING EXPERIENCE

The University of Texas at Austin; Austin, TX — Fall 2008 – current
Graduate Research Assistant – Dr. Michael Webber and Dr. Jeremy Meyers
- Creating a general model of a utility's generation portfolio inclusive of future smart grid technologies
- Investigating the potential of energy storage to provide dispatchable renewable power
- Collaborating with Austin Energy to study specific plans for renewable energy and smart grid deployment

Boeing Integrated Defense Systems; Houston, TX — Summer 2008
Intern – Space Shuttle Power and Propulsion, Fuel Cells and Main Propulsion System (MPS)
- Advanced off-nominal performance investigations for several fuel cell system components
- Analyzed post-flight data to verify nominal performance of all mission-critical MPS components
- Collaborated with supplier on component revision program to resolve persistent off-nominal performance
- Supported shuttle missions for the fuel cell subsystem in the NASA Mission Evaluation Room

Boeing Commercial Airplanes; Everett, WA — Summer 2007
Intern – Mechanical Hydraulics, Landing Gear Systems
- Coordinated effort with external organizations to drive airplane weight savings program
- Analyzed tire and landing gear interference risk under high load cases
- Developed action plan to resolve potential wheel equipment incompatibilities
- Evaluated airplane flight profile data to determine peak wheel component loads

Boeing Commercial Space Company: Sea Launch; Auburn, WA — Summer 2005 and 2006
Intern – Analysis, Integration and Test
- Created at-a-glance tool to show aggregated sensor suite performance data
- Updated critical engineering process documents to align with team practices
- Synthesized information demands into a document with an optimal data set
- Informed work team about Boeing intern development programs

LEADERSHIP EXPERIENCE

Engineers Without Borders; Providence, RI — Fall 2005-2008
President (2007-2008); Vice-President (2006-2007)
- Coordinated with engineering faculty to provide support to group projects
- Motivated executive board to set goals to expand group scope and visibility
- Led initiatives for outreach to broader campus community

National Society of Black Engineers: Brown Chapter; Providence, RI — Fall 2004-2008
Co-President (2007-2008); Senator (2006-2007)
- Created database of information on companies as a research resource for members
- Communicated regional society activities to group executive board

INROADS Internship Program; Seattle, WA — Spring 2005-2008
Intern
- Strengthened knowledge of corporate citizenship through summer and winter workshops
- Involved in community service activities through program

TECHNICAL SKILLS

- Software: Microsoft Office, Macromedia Studio, Mathematica, MATLAB, Pro/Engineer, GAMS and ABAQUS
- Platforms: Mac OS X, Microsoft Windows, Linux/UNIX
- Languages: C, CSS, HTML, JavaScript, VBA