

Kylie R. Nash

*Department of Computer Science Engineering
Mississippi State University*

*Starkville, MS
Email Address: krn2@msstate.edu*

Education: Mississippi State University Mississippi State, MS
James Worth Bagley College of Engineering
Ph.D. Student Computer Science Engineering Expected
Research Interests: Software Engineering and Computer Security
Advisor: Edward Allen

Jackson State University Jackson, MS
College of Science, Engineering, and Technology
M.S. Computer Science Aug. 2005
Thesis Title: Navigational Path Planning for Pedestrians Using 2D Maps
Advisor: Loretta Moore

Jackson State University
B.S. Computer Science Dec. 2003
Magna Cum Laude

**Teaching
Experience:**
Summer 2005

**Summer Bridge Coordinator for Increasing Minority Access to Graduate Education
(I.M.A.G.E.), James Worth Bagley College of Engineering
Mississippi State University** Mississippi State, MS

- Coordinated and planned daily seminar speaker series and study hall events
- Planned weekly activities for student's supplemental resources to aid students with preparing for their upcoming freshman academic year.
- Planned social activities for students

Fall 2005

**Teaching Assistant, Department of Computer Science Engineering
Mississippi State University** Starkville, MS

- Assisted students in class and out of class with programming assignments
- Planned weekly programming assignments for students in the Intro to Computer Programming course (CSE 1284) and provided supplemental resources to aid students with programming
- Maintained the class website for the course (WebCT)

**Research
Experience:**
Summer 2004

**Graduate Research Internship Program (GRIP)
University of California, Santa Barbara** Santa Barbara, CA
SUMMER INTERN

- Designing a user interface for implementing navigational maps for mobile GIS

HPCMP PET Summer Intern Program

**U.S. Army Corps of Engineers, Engineering Research and Development Center
(ERDC)** Vicksburg, MS
SUMMER INTERN

- Information visualization of real-time data sets.

Summer 2003 **ARL Open D.O.O.R. Research Program**
The Pennsylvania State University State College, PA
SUMMER INTERN

- Designing 3D virtual environments and conducting user studies

2001-2003 **Trent Lott Geospatial and Visualization Research Center (GVRC)**
Jackson State University Jackson, MS
STUDENT RESEARCHER

- Learning Vega Software applications, creating simulations, designing virtual environments, and viewing data.
- RAVE Operator (Reconfigurable Advanced Visualization Environment), allows user interaction and manipulation of objects in a 3D environment.

Fellowships & Honors

- Southern Regional Educational Board Fellow (SREB) (2006-Present)
- JSU/MSU Dave Swalm Scholarship Awardee (2006 – Present)
- National Science Foundation’s Louis Stokes Mississippi Alliance for Minority Participation
- (LSMAMP) Bridge to the Doctorate Fellow (2004- 2005)
- Alpha Kappa Alpha Sorority, Inc. (Member 2002- Present)
- 2001 Heisenberg Physics Awardee
- 2002 Litton Ingalls Scholarship Awardee

Publications:

- Nash, K., Moore L. and Höllerer. T, “Navigational Path Planning for Pedestrians Using 2D Maps”, *Proceedings of the 2005 Symposium on Computing at Minority Institutions, Modeling Diversity in Computing and Engineering*, Oct. 13-15, 2005, Rincon, Puerto Rico, p. 183-189.

Presentations:

- Nash, Kylie. Measuring User Based Presence in Automated Virtual Environments. Applied Research Laboratory, The Pennsylvania State University, August 2003.
- Nash, Kylie. Information Visualization of real-time data sets using EnSight 7.6. Louis Stokes Mississippi Alliance Minority Participation Statewide Research Symposium, October 2004.

Professional Societies & Activities:

- Institute Electrical Electronics Engineering (IEEE)- (Member 2003- Present)
- Association for Computing Machinery (ACM)- (Member 2002- Present)
- 2004 Mississippi Science and Engineering Fair Judge (Jackson State University)
- National Society of Black Engineers (NSBE)- Public Relations Chair (2004-2005)
Secretary (2005- Present)

Technical
Experience:

Programming Languages: Java, C, C++, Pascal, Fortran, UNIX scripting, XML, JSP, HTML, Java Swing, QT, Python

Computer Software: MySQL, Microsoft Office (Excel, PowerPoint, Word), Apache Tomcat

Operating Systems: Windows 2000/XP, UNIX

Visualization Tools: (Fake Space RAVE), Access Grid Node, VEGA Software Application, Multi-Gen Paradigm Creator 3D, EnSight 7.6, OpenGL