ALEXANDER LALEJINI

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EDUCATION

Mississippi State University *August 2011 - Present*
Degree: Computer Science
Expected Graduation: May 2015
GPA: 4.0

RESEARCH EXPERIENCE

Laboratory for Autonomous Systems Research (LASR) May 2014 - Present
Naval Research Laboratory - NREIP Intern *Washington, D.C.*

- Mentors/Supervisors: Dr. Greg Trafton, Dr. Laura Hiatt
- Summer 2014 undergraduate research position at LASR. Conducted research related to the use of dynamic context produced by a computational cognitive model to improve a neural network-based object recognition system.

Center for Advanced Vehicular Systems (CAVS) January 2014 - Present
Mississippi State University - Undergraduate Research Assistant *Starkville, MS*

- Mentors: Dr. Daniel Carruth, Dr. Cindy L. Bethel
- Conducted ITAR-restricted research on the CRES-GV project. This project involved the development of software to integrate robotic platforms in a vehicle simulation software package.

Social, Therapeutic, & Robotic Systems (STaRS) Laboratory August 2013 - Present
Mississippi State University - Undergraduate Research Assistant *Mississippi State, MS*

- Mentor/Supervisor: Dr. Cindy L. Bethel
- Performed research and served as Co-Lead of the Robot Intent and Control Project sponsored by the Army Research Laboratory. The project involved the development of a system that allowed supervisory command and control of an autonomous robot platform through the use of three different interfaces. The system was evaluated in a user study that measured the usability and user experience of each interface.

Mississippi State University Physics Department Fall 2011 - Spring 2012
Undergraduate Research Assistant *Mississippi State, MS*

- Supervisor: Dr. Angelle Tanner
- Developed multiple data analysis and image processing scripts primarily for data collected at the Palomar Observatory.

EMPLOYMENT

Jet Propulsion Laboratory (JPL) Summer 2012
USRP Intern *Pasadena, CA*

- Supervisor: William R. Johnson
- Provided Earth Science software support; developed a radiometer calibration application using Enthought Python. This application coordinated the automation of multiple calibration instruments via serial communication and provided the user with real-time data visualization from the calibration process.

Naval Research Laboratory (NRL) Summers of 2011, 2010, 2009
Computer Clerk (2011), SEAP Intern (2010, 2009) *John C. Stennis Space Center, Mississippi*

· Supervisor: Dr. Bruce Lin

· Assisted with the development of a battlespace management interface written using the World Wind Java SDK. Implemented a clustering algorithm for use in the classification of sparse data points.

TECHNICAL SKILLS

Computer Languages	Python, C/C++, Java
Software Tools & Libraries	Robot Operating System (ROS), Enthought Python, Scipy, Numpy
Version Control	GIT
Robots	Kobuki TurtleBot 2, Dr. Robot Jaguar
Web	PHP, HTML/CSS, SQL
Operating Systems	Linux, Windows, Mac OS

AWARDS AND HONORS

- President's Scholar (Fall 2011 - Present)
- Shackouls Honors College
- Meritorious Award in Bagley Undergraduate Research Poster Competition (Poster title: Robot Control)

SERVICE

SWAT Training Participant November 2013 - Present
Mississippi State University

· Volunteer in monthly training exercises with the Starkville City Police Department SWAT team and the STaRS Laboratory related to the integration of robots with tactical teams.

National SeaPerch Challenge Volunteer May 2014
Hattiesburg, MS

· Poolside judge for the Heist Challenge.