

Dexter Duckworth

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Unit 15C
Starkville, MS 39759

Curriculum Vitae
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Education

Degree	B.S., Computer Engineering	Mississippi State, MS
Expected Graduation	May 2015	
Current GPA	3.89/4.00	
University	Mississippi State University	

Publications

Wuisan, S., **Duckworth, D.**, Cogley, B., Henkel, Z., and Bethel, C. L., "Therabot: The Initial Design of a Robotic Therapy Support System," *10th IEEE/ACM International Conference on Human Robot Interaction (HRI 2015)*. Portland, OR. March 2-5, 2015. Under Review.

Lalejini, L., **Duckworth, D.**, Sween, R., Bethel, C., Carruth, D., "Evaluation of Supervisory Control Interfaces for Mobile Robot Integration with Tactical Teams," *2013 IEEE Workshop on Advanced Robotics and its Social Impacts (ARSO)*, 11-13 September, 2014.

Duckworth, D., Shrewsbury, B., and Murphy, R. R., "Run the Robot Backward: Lessons Learned in Nuclear Forensics," *11th IEEE International Symposium on Safety, Security, and Rescue Robotics (SSRR 2013)*, Linköping, Sweden, October, 2013.

Awards and Honors

- Bagley Engineering Undergraduate Poster Session Distinguished Award (2014)
- Bagley Engineering Undergraduate Student Publication Award (2013)
- Phi Kappa Phi Honors Society Member (2013-Present)
- Presenter at Computing for Disasters REU Poster Session (2013)
- Presenter at Safety, Security, and Rescue Robotics Conference (2013)
- Shackouls Honors College Member (2011-Present)

Research Experience

Lab	Social, Therapeutic, and Robotic Systems (STaRS) Lab	Mississippi State University
Mentor	Dr. Cindy Bethel	
Membership	January 2012 - Present	
Activities	Project lead on the robot intent project, which involved programming an autonomous robot to display pending actions and to accept override commands from a user. Hardware and software work on the Therabot project, the goal of which is to design a life-like, intelligent animal robot that can be used for therapeutic support. Project Lead on the SWAT Autonomy Project funded by Army Research Labs.	

Lab	Center for Advanced Vehicular Systems (CAVS)	Mississippi State University
Mentor	Dr. Daniel Carruth, Dr. Cindy Bethel	
Membership	November 2013 - May 2014	
Activities	Performed software development that integrated the Robot Operating System (ROS) with a simulation environment to create a virtual robotic testbed environment.	

Lab	Center for Robot-Assisted Search and Rescue (CRASAR) Lab	Texas A&M University
Mentor	Dr. Robin Murphy	
Membership	June 2013 - August 2013	
Activities	Analyzed radiological sensor data from a live nuclear field exercise and used the results to design a robot sensor payload for the localization of radiation. The findings were presented at the SSRR 2013 conference.	

Employment

Job Title	Information Assistant
Employer	Mississippi State Housing
Dates	January 2012 - December 2013
Duties	Provided information to students and acted as a liaison between residents and housing staff.

Job Title	Tutor
Employer	Mississippi State Student Outreach
Dates	January 2013 - May 2013
Duties	Tutored students in Calculus, Physics, and Electronic Circuits.

Service

Activity	SWAT Training Participant
Dates	November 2013 - Present
Description	Played the part of a criminal in a training exercise by the Starkville SWAT team in coordination with the STaRS lab. Actively develop hardware and software testing in monthly SWAT training exercises.

Skills

Python	Three years of experience with Python applied to research robots such as the Turtlebot2.
ROS	Experience with the use of the Robot Operating System (ROS) in a laboratory setting to build projects and integrate them with RosPy.
Git	Git version control software as a project lead to manage project source code with oversight of eight members of the development team.
C/C++	Experience with Arduino-based C and the use of C/C++ as part of Operating System Design.
Web	Experience with PHP, HTML/CSS, and SQL for the design of a web-based inventory management systems for the STaRS lab.
Soldering	Four years of experience with both surface-mount and through-hole soldering.

Professional Memberships

IEEE, IEEE Robotics and Automation Society, IEEE Computer Society	2013-Present
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