

# Dexter Duckworth

Curriculum Vitae  
Dec. 13<sup>th</sup>, 2013

500 Louisville St  
Unit 30  
Starkville, MS 39759

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## Education

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<b>Degree</b>	B.S., Computer Engineering	Mississippi State, MS
<b>Expected Graduation</b>	May 2015	
<b>Current GPA</b>	3.9/4.0	
<b>University</b>	Mississippi State University	

## Publications

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

## Awards and Honors

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President's Scholar  
MSU Shackouls Honors College  
Phi Kappa Phi Honors Society

## Research Experience

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<b>Lab</b>	Center for Advanced Vehicular Systems	Mississippi State University
<b>Mentor</b>	Dr. Daniel Carruth	
<b>Membership</b>	November 2013 - Present	
<b>Activities</b>	I am working on the CRES-GV project in which I am creating a virtual test bed environment using robot simulation software.	

<b>Lab</b>	STARS Lab	Mississippi State University
<b>Mentor</b>	Dr. Cindy Bethel	
<b>Membership</b>	January 2012 - Present	
<b>Activities</b>	I am the project lead on the robot intent project, which involves programming an autonomous robot to display pending actions and to accept override commands from a user. I have also worked on several Arduino-based projects.	

<b>Lab</b>	CRASAR Lab	Texas A&M University
<b>Mentor</b>	Dr. Robin Murphy	
<b>Membership</b>	June 2013 - August 2013	
<b>Activities</b>	I analyzed radiological sensor data from a live nuclear 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

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

<b>Job Title</b>	Tutor
<b>Employer</b>	Mississippi State Student Outreach
<b>Dates</b>	January 2013 - May 2013
<b>Duties</b>	I tutored students in Calculus, Physics, and Electronic Circuits.

## Service

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<b>Activity</b>	SWAT Training Participant
<b>Dates</b>	November 2013
<b>Description</b>	I played the part of a criminal in a training exercise by the Starkville SWAT team in coordination with the STARS lab.

## Skills

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

## Professional Memberships

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