Dexter Duckworth

Curriculum Vitae
August 21st, 2014

110 Lynn Lane
Unit 15C
Starkville, MS 39759

dexter.w.duckworth@gmail.com
Cell: (901) 831-9371
dexterduckworth.com

Education

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

Publications

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

- President's Scholar
- Shackouls Honors College
- Phi Kappa Phi Honors Society
- Student Publication Award

- Presenter at SSRR Conference 2013
- Presenter at C4D REU Poster Session
- Distinguished Award at Bagley Engineering 2014 Undergraduate Poster Session

Research Experience

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

Lab	STARS Lab	Mississippi State University
Mentor	Dr. Cindy Bethel	
Membership	January 2012 - Present	
Activities	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.	

Lab	CRASAR Lab	Texas A&M University
Mentor	Dr. Robin Murphy	
Membership	June 2013 - August 2013	
Activities	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

Job Title	Information Assistant
Employer	Mississippi State Housing
Dates	January 2012 - December 2013
Duties	I 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	I tutored students in Calculus, Physics, and Electronic Circuits.

Service

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

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 integration with RosPy.
Git	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.
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.
Verilog	Multiple classes on Verilog, FPGA-based development, and digital design.

Professional Memberships

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