

Report Information				
<b>Award Type</b>	<b>Award Number</b>	<b>Prime DUNS</b>	<b>Calendar Yr/Qtr</b>	<b>Final Report</b>
Grant	0855182	066470972	2011 / 3	No

Award Recipient Information	
<b>Recipient DUNS Number</b>	066470972
<b>Recipient Account Number</b>	219038
<b>Recipient Congressional District</b>	02
<b>Parent DUNS Number</b>	066470972
<b>Recipient Type</b>	2U.G6.M8.OH.VW
<b>Recipient Legal Name</b>	AUBURN UNIVERSITY
<b>Recipient DBA Name</b>	
<b>Recipient Address 1</b>	107 SAMFORD HALL
<b>Recipient Address 2</b>	
<b>Recipient City</b>	AUBURN
<b>Recipient State</b>	AL
<b>Recipient ZIP Code + 4</b>	368490001
<b>Recipient Country</b>	USA

Project / Award Information	
<b>Funding Agency Code</b>	4900
<b>Awarding Agency Code</b>	4900
<b>Program Source (TAS) Code</b>	49-0101
<b>Sub Account Number for Program Source</b>	
<b>CFDA Number</b>	47.082
<b>Amount of Award</b>	189284.00
<b>Award Date</b>	08/01/2009
<b>Award Description</b>	Collaborative Research: CRI-RUI: II-New Attract: Aerial and Terrestrial Testbed for Research in Aerospace, Computing and Mathematics - The objective of this project is to inspire students at Tuskegee University and Auburn University in mathematics, aerospace science engineering, and networking by inviting them to contribute to a grand project: fly safely and efficiently, in a limited space, a fleet of autonomous unmanned aerial vehicles (UAVs) on a cooperative mission with terrestrial vehicles. While the project may take over five years to complete, the scope of this proposal is to set up in two years the required research infrastructure with the collaboration of undergraduate and graduate students.
<b>Total Number of Sub Awards less than \$25,000/award</b>	0
<b>Total Amount Sub Awards less than \$25,000/award</b>	0.00
<b>Total Number of Sub Awards to Individuals</b>	0
<b>Total Amount of Sub Awards to Individuals</b>	0.00
<b>Total Number of Payments to Vendors less than \$25,000/award</b>	20
<b>Total Amount of Payments to Vendors less than \$25,000/award</b>	3332.02

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**Project Information**

<p><b>Project Name or Project/ Program Title</b></p> <p><b>Quarterly Activities/ Project Description</b></p>	<p>Collaborative Research: CRI-RUI: II-New Attract: Aerial and Terrestrial Testbed for Research in Aerospace, Computing and Mathematics</p> <p>This summer, eleven undergraduate students were divided in three teams to compete and address the same challenge: fly autonomously, safely, and efficiently 6 to 12 UAVs in a limited space.</p> <p>Each team designed a collision avoidance algorithm derived from collision avoidance algorithms designed for terrestrial robots navigating around static obstacles. Here, the UAVs cannot back off, stop, or abruptly change directions. The UAVs are flying at a cruise speed that cannot be altered for efficiency reasons. Furthermore, the UAVs are considered by peers as mobile obstacles. The students adapted the existing algorithms to the specific requirements of our UAVs.</p>	<p><b>Activity Codes (NAICS or NTEE-NPC) (up to 10)</b></p> <p><b>Activity Code 1</b> B43 - NTEE</p> <p><b>Activity Code 2</b></p> <p><b>Activity Code 3</b></p> <p><b>Activity Code 4</b></p> <p><b>Activity Code 5</b></p> <p><b>Activity Code 6</b></p> <p><b>Activity Code 7</b></p> <p><b>Activity Code 8</b></p> <p><b>Activity Code 9</b></p> <p><b>Activity Code 10</b></p>
<p><b>Project Status</b></p> <p><b>Total Federal Amount ARRA Funds Received/ Invoiced</b></p> <p><b>Number of Jobs</b></p> <p><b>Description of Jobs Created</b></p> <p><b>Total Federal Amount of ARRA Expenditure</b></p> <p><b>Total Federal ARRA Infrastructure Expenditure</b></p> <p><b>Infrastructure Purpose and Rationale</b></p>	<p>Less than 50% completed</p> <p>152615.63</p> <p>1.70</p> <p>Faculty, Graduate Assistants and Undergraduate Student Workers</p> <p>162013.60</p> <p>0.00</p>	

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**Infrastructure Contact**

<b>Name</b>	<b>Street Address 1</b>
<b>Email</b>	<b>Street Address 2</b>
<b>Phone</b>	<b>Street Address 3</b>
<b>Ext</b>	<b>City</b>
	<b>State</b>
	<b>ZIP Code + 4</b>

**Primary Place of Performance**

<b>Address 1</b>	107 Dunstan Hall
<b>Address 2</b>	
<b>City</b>	Auburn University
<b>Country Code</b>	US
<b>State</b>	AL
<b>ZIP Code + 4</b>	36849 - 0001
<b>Congressional District</b>	02

**Recipient Highly Compensated Officers**

<b>Prime Recipient Indication of Reporting Applicability</b>	No	<b>Officer 3 Name</b>	
<b>Officer 1 Name</b>		<b>Officer 3 Compensation</b>	
<b>Officer 1 Compensation</b>		<b>Officer 4 Name</b>	
<b>Officer 2 Name</b>		<b>Officer 4 Compensation</b>	
<b>Officer 2 Compensation</b>		<b>Officer 5 Name</b>	
		<b>Officer 5 Compensation</b>	

**Report Audit Trail**

<b>Created By</b>	Cindy Selman
<b>Date Created</b>	10/02/2011 10:21 PM
<b>Last Updated By</b>	Cindy Selman
<b>Last Updated On</b>	10/10/2011 05:18 PM