

Report Information				
Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	0855182	066470972	2010 / 2	No

Award Recipient Information	
Recipient DUNS Number 066470972	Recipient Address 1 107 SAMFORD HALL
Recipient Account Number 219038	Recipient Address 2
Recipient Congressional District 02	Recipient City AUBURN
Parent DUNS Number 066470972	Recipient State AL
Recipient Type 2U.95.G6.M8.OH.VW	Recipient ZIP Code + 4 368490001
Recipient Legal Name AUBURN UNIVERSITY	Recipient Country USA
Recipient DBA Name	

Project / Award Information	
Funding Agency Code 4900	Total Number of Sub Awards less than \$25,000/award 0
Awarding Agency Code 4900	Total Amount Sub Awards less than \$25,000/award 0.00
Program Source (TAS) Code 49-0101	Total Number of Sub Awards to Individuals 0
Sub Account Number for Program Source	Total Amount of Sub Awards to Individuals 0.00
CFDA Number 47.082	Total Number of Payments to Vendors less than \$25,000/award 13
Amount of Award 189284.00	Total Amount of Payments to Vendors less than \$25,000/award 884.09
Award Date 08/01/2009	
Award Description 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 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.	

Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	0855182	066470972	2010 / 2	No

Project Information

Project Name or Project/ Program Title	Quarterly Activities/ Project Description	Activity Codes (NAICS or NTEE-NPC) (up to 10)
Collaborative Research: CRI- RUI: II-New Attract: Aerial and Terrestrial Testbed for Research in Aerospace, Computing and Mathematics	Progress is satisfactory. The team is acquiring every day increased expertise on UAVs and the terrestrial robots. Here are the activities planned: 1) Implement and evaluate the collision/conflict avoidance: the idea is to evaluate this algorithm through simulation first. The open source ROS platform will be used 2) Evaluate the autopilot for the cheap Multiplex using simulation. Simulation allows the team to train on manual control of the UAVs. Should something go wrong, we have to take control of the plane and land it safely. Simulation also allows us to validate the measurements made by Alex and Jared (The aerospace students). 3) Test and evaluate the mesh network infrastructure 4) Acquire more powerful engines and better batteries to increase the duration of flight up to one hour. 5) Develop at Auburn a UAV similar to the Procerus plane. The idea is to acquire the same frame as the procerus and equip it ourselves with off the shelf equipment and with in house software. 6) Fly four to six UAVs autonomously.	<p>Activity Code 1 B43 - NTEE</p> <p>Activity Code 2</p> <p>Activity Code 3</p> <p>Activity Code 4</p> <p>Activity Code 5</p> <p>Activity Code 6</p> <p>Activity Code 7</p> <p>Activity Code 8</p> <p>Activity Code 9</p> <p>Activity Code 10</p>

Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	0855182	066470972	2010 / 2	No

Project Status	Less than 50% completed
Total Federal Amount ARRA Funds Received/ Invoiced	6289.75
Number of Jobs	1.04
Description of Jobs Created	Faculty and Student Workers
Total Federal Amount of ARRA Expenditure	23896.17
Total Federal ARRA Infrastructure Expenditure	0.00
Infrastructure Purpose and Rationale	

Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	0855182	066470972	2010 / 2	No

Infrastructure Contact

Name	Street Address 1
Email	Street Address 2
Phone	Street Address 3
Ext	City
	State
	ZIP Code + 4

Primary Place of Performance

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

Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

Report Audit Trail

Created By	Cindy Selman
Date Created	07/01/2010 11:36 AM
Last Updated By	Cindy Selman
Last Updated On	07/07/2010 12:06 PM