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## Preview of Award 1241739 - Annual Project Report

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## Cover

Federal Agency and Organization Element to Which Report is Submitted:	4900
Federal Grant or Other Identifying Number Assigned by Agency:	1241739
Project Title:	Cyber Security: Cyber First Responder Program
PD/PI Name:	Haydar T Sahin, Principal Investigator Robert Castaneda, Co-Principal Investigator Janie Gonzales, Co-Principal Investigator
Recipient Organization:	St. Philip's College
Project/Grant Period:	09/01/2012 - 08/31/2015
Reporting Period:	09/01/2013 - 08/31/2014
Submitting Official (if other than PD\PI):	Haydar T Sahin Principal Investigator
Submission Date:	08/25/2014
Signature of Submitting Official (signature shall be submitted in accordance with agency specific instructions)	Haydar T Sahin

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## Accomplishments

### \* What are the major goals of the project?

Professional development for SPC college faculty and area K-12 educators to increase their content knowledge and expertise in information assurance and cyber security;

St. Philip's College and the National Science Foundation Cyber Security: Cyber First Responders Program provided training in computer forensics to middle school, high school, and college faculty. The training was essential in order to build knowledge in the area of digital forensics.

The following districts and schools participated in the Digital Forensics Training:

St. Philip's College and the National Science Foundation Cyber Security: Cyber First Responders Program provided forty six (46) security workshops to the following school districts from San Antonio and surrounding counties.

St. Philip's College sponsored a 3 week Cyber Security Summer Camp for 7-12 grade students from middle and high school. The purpose of the Cyber Security Summer Camp was to increase their interest and awareness of Information Assurance and Cyber Security fields of study and careers. The Cyber Security Summer Camp targeted STEM (Science, Technology, Engineering and Math) students to increase their knowledge in the cyber security field. The 3 week Cyber Security Summer Camp was conducted from June 9-June 26, Monday through Thursday, from 9 a.m. to 4 p.m. The Cyber Security Summer Camp was divided into two levels—one for grades 7-8 and another for grades 9-12.

The following are the participating Middle Schools and High Schools:

<b>Middle School</b>	<b>District</b>
Not Provided	Northeast ISD
Not Provided	Uvalde ISD
Dobie	Schertz-Cibolo Universal City ISD
Gus Garcia	Edgewood ISD
Harmony Science Academy	Harmony Science District
Hector Garcia	Northside ISD
Home School	San Antonio , TX
Jefferson Middle School	Northside ISD
Judson MS	Judson ISD
KIPP Camino	KIPP Academy
LA Vernia MS	La Vernia ISD
Lasoya MS	Southside ISD
Long Fellow	San Antonio ISD
Mathey	Southside ISD

McNair	Southwest ISD
Medina Valley	Medina Valley ISD
Nimitz	Northeast ISD
Paschell Elem	Judson ISD
Scobee	Southwest ISD
St. Matthew	Archdiocese of San Antonio
Stevenson	Northside ISD
Vale MS	Northside ISD
Zachery MS	Northside ISD

**High Schools**

**Districts**

Brackenridge	San Antonio ISD
Burbank	San Antonio ISD
Construction Careers Academy	Northside ISD
Edison	San Antonio ISD
Fox Tech	San Antonio ISD
Harmony Science Academy	Harmony ISD
Highlands	San Antonio ISD
Holmes	Northside ISD
John Jay	Northside ISD
Lanier	San Antonio ISD
McArthur	Northeast ISD
O'Connor	Northside ISD
Roosevelt	Northeast ISD
Science & Engineering Academy	Northside ISD

Somerset	Somerset ISD
Southwest	Southwest ISD
STEM Academy	Northeast ISD
Stevens	Northside ISD
Stevenson	Northside ISD
Thomas Jefferson	San Antonio ISD

St. Philip's College and the National Science Foundation Cyber Security: Cyber First Responders Program:

Provided a Cyber Security Summer camp to twenty two (22) Middle Schools and twenty (20) High schools from the following school districts: Edgewood ISD, Archdiocese of San Antonio, Harmony Science District, Judson ISD, La Vernia ISD, Medina Valley ISD, Northeast ISD, Northside ISD, San Antonio ISD, Southside ISD, Harmony ISD and Somerset ISD TX.

(2) creation of a certificate program for emergency operations personnel needing an understanding of cyber incident response;

St. Philip's College created a Marketable Skills Cyber First Responders Certificate. The certificate program was formulated as soon as the grant project was submitted.

The following Alamo Colleges have adopted the Cyber First Responders program:

Northwest Vista

<http://www.alamo.edu/nvc/academics/departments/cyber-first-responders/>

San Antonio College

[http://mysaccatalog.alamo.edu/preview\\_program.php?catoid=91&poid=6451&returnto=3568](http://mysaccatalog.alamo.edu/preview_program.php?catoid=91&poid=6451&returnto=3568)

(3) development of curriculum leading to an Associate of Applied Science degree in Cyber First Response was introduced formally to the curriculum committee in fall 2014.

(4) formation of collaborative agreements with 4-year institutions to provide transitions to 4-year programs to complete a Bachelor or higher

degree; and

- Collaboration with Texas A&M San Antonio

(5) development of a secondary school component for high school students with an interest in cyber security to clarify the purpose and value of this program as a potential college major and career choice;

Harlandale Model Information Assurance program is for students who have an interest in cyber security and additionally receive dual credit. The Harlandale model has been distributed to local high schools around the San Antonio and surrounding school districts.

Recruitment was provided at the following locations to inform students of the Cyber First Responders Program:

<b>NSF Program</b>	<b>Date</b>	<b>Location / Event</b>	<b>No. of individuals contacted</b>	<b>No. of students from SPC involved</b>
<b>Cyber First Responders</b>	9/11/2013	Sidney Lanier High School	114	
<b>Cyber First Responders</b>	9/20/2013	Brackenridge High School	41	3
<b>Cyber First Responders</b>	10/2/2013	St. Philip's College (MLK)Cyber Security Month	52	
<b>Cyber First Responders</b>	10/3/2013	St. Philip's College (SWC)Cyber Security Month	47	
<b>Cyber First Responders</b>	10/16/2013	Alamo Heights (College Fair)	12	
<b>Cyber First Responders</b>	10/17/2013	Judson High School (College Fair)	43	
<b>Cyber First Responders</b>	10/25/2013	John F. Kennedy High School	65	3
<b>Cyber First Responders</b>	10/29/2013	Brackenridge High School	70	1
<b>Cyber First Responders</b>	11/8/2013	Alamo Heights High School	56	2
<b>Cyber First Responders</b>	11/13/2013	(STEM EXPO) McNair Southwest Middle School	21	
<b>Cyber First Responders</b>	11/13/2013	(STEM EXPO) Mark Twain Middle School	27	

<b>Cyber First Responders</b>	11/13/2013	(STEM EXPO) Longfellow Middle School	16	
<b>Cyber First Responders</b>	11/13/2013	Career Expo NEISD Middle & High School	39	
<b>Cyber First Responders</b>	11/14/2013	(STEM EXPO) Lowell Middle School	21	2
<b>Cyber First Responders</b>	11/14/2013	(STEM EXPO) New Frontier Middle School	24	2
<b>Cyber First Responders</b>	11/14/2013	(STEM EXPO) St. Anthony Middle School	16	2
<b>Cyber First Responders</b>	11/15/2013	Jefferson High School	53	3
<b>Cyber First Responders</b>	11/16/2013	STEM EXPO Family Day	14	3
<b>Cyber First Responders</b>	11/20/2013	Cyber Security STEM Symposium	88	8
<b>Cyber First Responders</b>	12/13/2013	Wagner High School	122	2
<b>Cyber First Responders</b>	1/14/2014	Alamo Heights High School	57	2
<b>Cyber First Responders</b>	2/5/2014	South San High School	111	0
<b>Cyber First Responders</b>	2/7/2014	South San High School	99	0
<b>Cyber First Responders</b>	2/14/2014	Thomas Jefferson High School	167	0
<b>Cyber First Responders</b>	2/18/2014	Thomas Jefferson High School	49	0
<b>Cyber First Responders</b>	2/19/2014	Marshall High School	111	0
<b>Cyber First Responders</b>	2/20/2014	Highlands High School	99	0

<b>Cyber First Responders</b>	2/21/2014	Thomas Jefferson High School	99	0
<b>Cyber First Responders</b>	2/25/2014	Marshall High School	72	0
<b>Cyber First Responders</b>	2/26/2014	Highlands High School	98	0
<b>Cyber First Responders</b>	2/28/2014	Highlands High School	14	0
<b>Cyber First Responders</b>	3/1/2014	4th Annual San Antonio Mayor's Cyber Cup Luncheon	35	1
<b>Cyber First Responders</b>	3/5/2014	Smithson Valley High School	9	0
<b>Cyber First Responders</b>	3/18/2014	Career & Technical Teacher Training (NEISD) James Madison High School	15	0
<b>Cyber First Responders</b>	3/20/2014	Poe Middle School	14	0
<b>Cyber First Responders</b>	3/27/2014	Women in Non-Traditional Occupation Conference	68	0
<b>Cyber First Responders</b>	3/29/2014	Girls Inc.'s 8th annual Girls Rockit	12	2
<b>Cyber First Responders</b>	4/12/2014	(STEM CAREER DAY) Anson Jones MS	12	0
<b>Cyber First Responders</b>	4/12/2014	(STEM CAREER DAY) Zachry MS	1	0
<b>Cyber First Responders</b>	4/12/2014	(STEM CAREER DAY) South San High School	5	0
<b>Cyber First Responders</b>	4/12/2014	(STEM CAREER DAY) KIPP U-Prep	3	0
<b>Cyber First Responders</b>	4/17/2014	Wagner High School	6	0
<b>Cyber First Responders</b>	4/24/2014	Medina Valley High School	8	0
<b>Cyber First</b>				



<b>Responders</b>	5/1/2014	NSA Ceremony	20	0
<b>Cyber First Responders</b>	5/9/2014	Harlandale HS	25	3
<b>Cyber First Responders</b>	5/21/2014	Bandera ISD	34	0
<b>Cyber First Responders</b>	5/28/2014	Early High School (SAISD) Recruitment	94	2
<b>Cyber First Responders</b>	June 9-26-2014	Cyber Security Summer Camp	100	
			<b>Total: 2,369</b>	41

**\* What was accomplished under these goals (you must provide information for at least one of the 4 categories below)?**

Major Activities:

St. Philip's College and the National Science Foundation Cyber Security: Cyber First Responders Program were able to accomplish the following for year two:

1. Junior Cyber Security Summer Camps
2. Summer Digital Forensics Training
3. Recruitment Membership Drive & Secondary Schools Cyber Events
4. In addition, under the NSF grant we have hired Benson Company to develop the Cyber First Responders program Website.

Specific Objectives:

St. Philip's College and the National Science Foundation Cyber Security: Cyber First Responders Program were able to accomplish the following:

### **Junior Cyber Security Summer Camps**

St. Philip's College will sponsored a Cyber Security Summer Camps for grades 7-12 students.

The camp was conducted for 3 weeks, Monday through Thursday, from 9 a.m. to 4 p.m. Junior Cyber Security Summer Camp was divided into two levels—one for grades 7-8 and another for

grades 9-12.

### **Summer Digital Forensics Training:**

St. Philip's College and the National Science Foundation Cyber Security: Cyber First Responders Program provided training in computer forensics to middle school, high school, and college faculty. The training was essential in order to build knowledge in the area of digital forensics. The training was designed to help prepare faculty to be instructors of security.

### **Recruitment Membership Drive & Secondary Schools Cyber Events**

St. Philip's College and the National Science Foundation Cyber Security: Cyber First Responders Program hosted forty six (46) college-wide membership drives and Secondary Schools Cyber Events in order to encourage and provide information on the Cyber Security: Cyber First Responders program.

### **Website Development**

The development of the website is in progress and is about 85% complete.

#### **Significant Results:**

St. Philip's College and the National Science Foundation Cyber Security: Cyber First Responders Program were able to meet and exceed expectations 100%:

1. Junior Cyber Security Summer Camps: 100% met objectives.
2. Summer Digital Forensics Training: 100% met objectives.
3. Recruitment Membership Drive & Secondary Schools Cyber Events: 100% met objectives.
4. The development of the website is in progress.

#### **Key outcomes or Other achievements:**

St. Philip's College and the National Science Foundation Cyber Security: Cyber First Responders Program were able to meet and exceed expectations 100%:

1. Junior Cyber Security Summer Camps had a total of 100 students.
1. Summer Digital Forensics Training had a total of twenty-nine (29) participants.
2. Membership drive & secondary school cyber events recruited a total of 2,369 students.
  
3. The development of the website is in progress.

**\* What opportunities for training and professional development has the project provided?**

Professional development for SPC college faculty and area K-12 educators to increase their content knowledge and expertise in information assurance and cyber security.

The cyber Security; Cyber First Responder program PI participated in the 2014 SIGCSE NSF Project Showcase in Atlanta Georgia where information and literature was provided to all participants.

St. Philip's College and the National Science Foundation Cyber Security: Cyber First Responders Program provided training in computer forensics to middle school, high school, and college faculty. The training was essential in order to build knowledge in the area of digital forensics. The training was designed to help prepare faculty to be instructors of security.

The following districts and schools participated in the Digital Forensics Training:

<b>Districts</b>
Edgewood ISD
Lytle ISD
San Antonio ISD
Southwest ISD
Palo Alto College
Harlandale ISD

Judson ISD
Northeast ISD
Harlandale ISD

St. Philip's College and the National Science Foundation Cyber Security: Cyber First Responders Program provided forty six (46) security workshops to the following school districts from San Antonio, TX.

Alamo Colleges
Alamo Heights ISD
Bandera ISD
Northeast ISD
Uvalde ISD
Schertz-Cibolo Universal City ISD
Edgewood ISD
Harmony Science District
San Antonio ISD
Judson ISD
KIPP Academy
La Vernia ISD

Southside ISD
Medina Valley ISD
Southwest ISD

St. Philip’s College sponsored a Cyber Security Summer Camps for 7-12 students from middle and high school. The purpose of the Cyber Security Summer Camp was to increase their interest and awareness of Information Assurance and Cyber Security fields of study and careers. The Cyber Security Summer Camp targeted STEM (Science, Technology, Engineering and Math) students, to increase their knowledge in the cyber security field. The 3 week Cyber Security Summer Camp was conducted from June 9-June 26, Monday through Thursday, from 9 a.m. to 4 p.m. The Cyber Security Summer Camp was divided into two levels—one for grades 7-8 and another for grades 9-12.

The following are the participating Middle Schools and High Schools:

<b>Middle School</b>	<b>District</b>
Not Provided	Northeast ISD
Not Provided	Uvalde ISD
Dobie	Schertz-Cibolo Universal City ISD
Gus Garcia	Edgewood ISD
Harmony Science Academy	Harmony Science District
Hector Garcia	Northside ISD
Home School	San Antonio , TX
Jefferson Middle School	Northside ISD
Judson MS	Judson ISD
KIPP Camino	KIPP Academy
LA Vernia MS	La Vernia ISD

Lasoya MS	Southside ISD
Long Fellow	San Antonio ISD
Mathey	Southside ISD
McNair	Southwest ISD
Medina Valley	Medina Valley ISD
Nimitz	Northeast ISD
Paschell Elem	Judson ISD
Scobee	Southwest ISD
St. Matthew	Archdiocese of San Antonio
Stevenson	Northside ISD
Vale MS	Northside ISD
Zachery MS	Northside ISD

**High Schools**

**Districts**

Brackenridge	San Antonio ISD
Burbank	San Antonio ISD
Construction Careers Academy	Northside ISD
Edison	San Antonio ISD
Fox Tech	San Antonio ISD
Harmony Science Academy	Harmony ISD
Highlands	San Antonio ISD
Holmes	Northside ISD
John Jay	Northside ISD
Lanier	San Antonio ISD

McArthur	Northeast ISD
O'Connor	Northside ISD
Roosevelt	Northeast ISD
Science & Engineering Academy	Northside ISD
Somerset	Somerset ISD
Southwest	Southwest ISD
STEM Academy	Northeast ISD
Stevens	Northside ISD
Stevenson	Northside ISD
Thomas Jefferson	San Antonio ISD

**\* How have the results been disseminated to communities of interest?**

The results have been disseminated to communities through Membership drives & secondary school cyber events. The following are activities that were executed to meet expectations.

<b>NSF Program</b>	<b>Date</b>	<b>Location / Event</b>	<b>No. of individuals contacted</b>	<b>No. of students from SPC involved</b>
<b>Cyber First Responders</b>	9/11/2013	Sidney Lanier High School	114	
<b>Cyber First Responders</b>	9/20/2013	Brackenridge High School	41	3
<b>Cyber First Responders</b>	10/2/2013	St. Philip's College (MLK)Cyber Security Month	52	
<b>Cyber First Responders</b>	10/3/2013	St. Philip's College (SWC)Cyber Security Month	47	
<b>Cyber First Responders</b>	10/16/2013	Alamo Heights (College Fair)	12	
<b>Cyber First Responders</b>	10/17/2013	Judson High School (College Fair)	43	
<b>Cyber First Responders</b>	10/25/2013	John F. Kennedy High School	65	3
<b>Cyber First Responders</b>	10/29/2013	Brackenridge High School	70	1

<b>Cyber First Responders</b>	11/8/2013	Alamo Heights High School	56	2
<b>Cyber First Responders</b>	11/13/2013	(STEM EXPO) McNair Southwest Middle School	21	
<b>Cyber First Responders</b>	11/13/2013	(STEM EXPO) Mark Twain Middle School	27	
<b>Cyber First Responders</b>	11/13/2013	(STEM EXPO) Longfellow Middle School	16	
<b>Cyber First Responders</b>	11/13/2013	Career Expo NEISD Middle & High School	39	
<b>Cyber First Responders</b>	11/14/2013	(STEM EXPO) Lowell Middle School	21	2
<b>Cyber First Responders</b>	11/14/2013	(STEM EXPO) New Frontier Middle School	24	2
<b>Cyber First Responders</b>	11/14/2013	(STEM EXPO) St. Anthony Middle School	16	2
<b>Cyber First Responders</b>	11/15/2013	Jefferson High School	53	3
<b>Cyber First Responders</b>	11/16/2013	STEM EXPO Family Day	14	3
<b>Cyber First Responders</b>	11/20/2013	Cyber Security STEM Symposium	88	8
<b>Cyber First Responders</b>	12/13/2013	Wagner High School	122	2
<b>Cyber First Responders</b>	1/14/2014	Alamo Heights High School	57	2
<b>Cyber First Responders</b>	2/5/2014	South San High School	111	0
<b>Cyber First Responders</b>	2/7/2014	South San High School	99	0
<b>Cyber First Responders</b>	2/14/2014	Thomas Jefferson High School	167	0



<b>Cyber First Responders</b>	2/18/2014	Thomas Jefferson High School	49	0
<b>Cyber First Responders</b>	2/19/2014	Marshall High School	111	0
<b>Cyber First Responders</b>	2/20/2014	Highlands High School	99	0
<b>Cyber First Responders</b>	2/21/2014	Thomas Jefferson High School	99	0
<b>Cyber First Responders</b>	2/25/2014	Marshall High School	72	0
<b>Cyber First Responders</b>	2/26/2014	Highlands High School	98	0
<b>Cyber First Responders</b>	2/28/2014	Highlands High School	14	0
<b>Cyber First Responders</b>	3/1/2014	4th Annual San Antonio Mayor's Cyber Cup Luncheon	35	1
<b>Cyber First Responders</b>	3/5/2014	Smithson Valley High School	9	0
<b>Cyber First Responders</b>	3/18/2014	Career & Technical Teacher Training (NEISD) James Madison High School	15	0
<b>Cyber First Responders</b>	3/20/2014	Poe Middle School	14	0
<b>Cyber First Responders</b>	3/27/2014	Women in Non-Traditional Occupation Conference	68	0
<b>Cyber First Responders</b>	3/29/2014	Girls Inc.'s 8th annual Girls Rokit	12	2
<b>Cyber First Responders</b>	4/12/2014	(STEM CAREER DAY) Anson Jones MS	12	0
<b>Cyber First Responders</b>	4/12/2014	(STEM CAREER DAY) Zachry MS	1	0
<b>Cyber First Responders</b>	4/12/2014	(STEM CAREER DAY) South San High School	5	0
<b>Cyber First</b>				

<b>Responders</b>	4/12/2014	(STEM CAREER DAY) KIPP U-Prep	3	0
<b>Cyber First Responders</b>	4/17/2014	Wagner High School	6	0
<b>Cyber First Responders</b>	4/24/2014	Medina Valley High School	8	0
<b>Cyber First Responders</b>	5/1/2014	NSA Ceremony	20	0
<b>Cyber First Responders</b>	5/9/2014	Harlandale HS	25	3
<b>Cyber First Responders</b>	5/21/2014	Bandera ISD	34	0
<b>Cyber First Responders</b>	5/28/2014	Early High School (SAISD) Recruitment	94	2
<b>Cyber First Responders</b>	June 9-26-2014	Cyber Security Summer Camp	100	
			<b>Total: 2,369</b>	41



**\* What do you plan to do during the next reporting period to accomplish the goals?**

We plan to analyze our 3rd year objectives and place in order a plan of action in order to meet and exceed expectations.

**Supporting Files**

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<b>Filename</b>	<b>Description</b>	<b>Uploaded By</b>	<b>Uploaded On</b>
BIS Recruitment Activities Fall 2013-2014.pdf	NSF Cyber Security: Cyber First Responders second (2) year documentation.	Haydar Sahin	08/21/2014

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**Products**

**Books**

**Book Chapters**

**Conference Papers and Presentations**

**Inventions**

**Journals**

**Licenses**

**Other Products**

**Other Publications**

**Patents**

**Technologies or Techniques**

**Thesis/Dissertations**

**Websites**

*cyberfirstresponder.org*

<http://www.cyberfirstresponders.org>

The objective of the Cyber First Responder website is to assist the community with any cyber security threat they may encounter.

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## Participants/Organizations

### What individuals have worked on the project?

Name	Most Senior Project Role	Nearest Person Month Worked
Sahin, Haydar	PD/PI	11
Castaneda, Robert	Co PD/PI	9
Gonzales, Janie	Co PD/PI	11

### Full details of individuals who have worked on the project:

#### Haydar T Sahin

**Email:** hsahin@alamo.edu

**Most Senior Project Role:** PD/PI

**Nearest Person Month Worked:** 11

**Contribution to the Project:** Contribution to the Project: -Carry out grant objectives as needed. -Participate in local IT security meetings. -Deliver 7-12 cyber security workshops. ( San Antonio School districts and surrounding school districts, etc.) -Develop cyber first responder certificate -Participate NSA workshops at University of Texas San Antonio -Qualified College to be a National Center of Academic Excellence in Information Assurance and designations by NSA and Homeland Security. -Host 2 seminars (one in Spring and one in Fall) for Cyber Tiger student organization. -Advisor to Cyber Tiger student club. -Coach and mentor Harlandale and McCullum High Schools for Cyber Patriot Competitions. -Help sister colleges to develop Cyber first responder certificate. -Organize and deliver security training for 7-12 teachers and college instructors from school districts in San Antonio, TX.

**Funding Support:** Funding Support: 9 Months in kind 2 months by grant

**International Collaboration:** No

**International Travel:** No

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#### Robert Castaneda

**Email:** rcastaneda25@alamo.edu

**Most Senior Project Role:** Co PD/PI

**Nearest Person Month Worked:** 9

**Contribution to the Project:** Participate in NSF meetings advisor to students.

**Funding Support:** In kind

**International Collaboration:** No

**International Travel:** No

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**Janie Gonzales**

**Email:** jgonzales2@alamo.edu

**Most Senior Project Role:** Co PD/PI

**Nearest Person Month Worked:** 11

**Contribution to the Project:** Contribution to the Project: -Assist with the carrying out of grant objectives -Review all materials to be published under grant - Oversee budget and supervise staff -Perform site visits to potential partnering schools -Participate in all NSF internal and external committees -Attend all cyber security NSF workshops (San Antonio school districts, etc.) -Assist with development of cyber first responder certificate -Participate in NSA workshops at University of Texas San Antonio -Qualified College to be a Center of Academic Excellence in Information Assurance and designations by NSA and Homeland Security. -Assist and plan activities for Cyber Tiger student club events. -Assist with Cyber Tiger student club.

**Funding Support:** 9 months in kind and 2 months by grant.

**International Collaboration:** No

**International Travel:** No

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**What other organizations have been involved as partners?**

<b>Name</b>	<b>Type of Partner Organization</b>	<b>Location</b>
University of Texas at San Antonio	Academic Institution	San Antonio, TX

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**Full details of organizations that have been involved as partners:**

**University of Texas at San Antonio**

**Organization Type:** Academic Institution

**Organization Location:** San Antonio, TX

**Partner's Contribution to the Project:**

Other: Provided cyber security training

**More Detail on Partner and Contribution:** As a partner in the grant, The Center of Infrastructure Assurance and Security through the University of Texas provided summer training for 11 school districts and four colleges. (more details provided under Accomplishments)

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## **What other collaborators or contacts have been involved?**

NO

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## **Impacts**

### **What is the impact on the development of the principal discipline(s) of the project?**

The Cyber Security: Cyber First Responder Program provided forty six (46) security workshops to middle school, High School and college staff. The Cyber Security: Cyber First Responders Program has impacted 2,369 students in school districts around San Antonio, Texas. Additionally, The Cyber Security: Cyber First Responders Program provided a two week Digital forensic training to twenty nine (29) teachers and college staff. Furthermore, the Cyber Security: Cyber First Responder Program sponsored a Cyber Security Summer Camps for 7-12 students from middle and high school.

The Cyber Security Summer Camp targeted STEM (Science, Technology, Engineering and Math) students, to increase their knowledge in the cyber security field. The Cyber Security Summer Camp provided services to twenty two (22) middle schools and twenty (20) high schools. In addition, the Cyber Tigers club has provided peer to peer tutoring to Harlandale and McCollum High School students. The Cyber Tigers have participated in the Cyber Patriot competition. As a result, 18 students from Harlandale have enrolled in the First Responders Program.

### **What is the impact on other disciplines?**

The Cyber Security: Cyber First Responders Program has a strong background in STEM. Students involved in with Cyber Security: Cyber First Responders Program are receiving the essential STEM skills to compete in the global economy.

### **What is the impact on the development of human resources?**

The Cyber Security: Cyber First Responders Program, will likely have an impact with private companies dedicated to cyber and IT. San Antonio is already home to 80 private companies that are associated with STEM. Additionally, The Cyber Security: Cyber First Responders Program has impacted school districts around San Antonio, TX. San Antonio school districts have implemented a variety of STEM programs where our Cyber Security: Cyber First Responders Program will be able connect and provide there students with endless opportunities in Cyber Security.

### **What is the impact on physical resources that form infrastructure?**

Nothing to report.

### **What is the impact on institutional resources that form infrastructure?**

Provided new Certificates in conjunction to modifying degree program. In addition, we have implemented security software and state of the art cloud server.

**What is the impact on information resources that form infrastructure?**

Nothing to report.

**What is the impact on technology transfer?**

Highly qualified and trained students to help close the professional cyber security employment gap in information security.

**What is the impact on society beyond science and technology?**

Through rigorous training and workshops participating middle school and high school faculty 7-12 and college staff they have created awareness in cyber security to their respective district and school of service.

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**Changes/Problems**

**Changes in approach and reason for change**

Nothing to report.

**Actual or Anticipated problems or delays and actions or plans to resolve them**

Nothing to report.

**Changes that have a significant impact on expenditures**

Nothing to report.

**Significant changes in use or care of human subjects**

Nothing to report.

**Significant changes in use or care of vertebrate animals**

Nothing to report.

**Significant changes in use or care of biohazards**

Nothing to report.