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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 - Alamo Community College District
Project/Grant Period:	09/01/2012 - 08/31/2015
Reporting Period:	09/01/2012 - 08/31/2013
Submitting Official (if other than PD\PI):	Haydar T Sahin Principal Investigator
Submission Date:	08/29/2013
Signature of Submitting Official (signature shall be submitted in accordance with agency specific instructions)	Haydar T Sahin

Accomplishments

* What are the major goals of the project?

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

1. Security Workshops were provided to St. Philip's College on February 28, 2013, Harlandale High School on May 1, 2013, St. Philip's College on May 15, 2013 and Por-Vida Academy Charter High School on May 30, 2013.
2. Provided Security + training to college faculty and k7-12 teachers to the following 11 districts in San Antonio, TX. -Southwest
Independent School District, Judson Independent School District, San Antonio Independent School District, Edgewood Independent School District, Lackland Independent School District, Harlandale Independent School District, Northside Independent School District , Comal Independent School District , North East Independent School District, Lytle Independent School District and Southwest Preparatory.

(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

(3) development of curriculum leading to an Associate of Applied Science degree in Cyber First Response;

(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 a n interest in cyber security and additionally receive dual credit. The Harlandale model has been distributed to local high school around the San Antonio School Districts.

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

1. Women in Non-Traditional Occupations (WINTO) Conference March 27, 2013
2. St. Philip's College: Annual Open House on April 9, 2013
3. Bandera High School on May 23, 2013
4. Wrenn Middle School on May 28, 2013 21
5. Harlandale High School on May 29, 2013
6. Girl Scouts 2013 Cyber Tigers Ceremony took place on August 9, 2013
7. St. Philip's College New Student Orientation recruitment at Martin Luther King Campus and at Southwest campus.
8. Girl Scouts/Region 20 Recruitment on August 10, 2013
9. St. Philip's College New Student Orientation recruitment at Martin Luther King Campus and at Southwest campus.

(6) creation of a cyber-learning laboratory at SPC to allow students to engage in hands-on, project-based learning using industry level virtual equipment and

resources .

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

Major Activities:

Security Workshops provided to:

1. St. Philip's College on February 28, 2013
2. Harlandale High School on May 1, 2013
3. St. Philip's College on May 15, 2013
4. Por-Vida Academy Charter High School on May 30, 2013

Recruitment was provided at the following schools:

1. Women in Non-Traditional Occupations (WINTO) Conference March 27, 2013
2. St. Philip's College: Annual Open House on April 9, 2013
3. Bandera High School on May 23, 2013
4. Wrenn Middle School on May 28, 2013 21
5. Harlandale High School on May 29, 2013
6. Girl Scouts/Region 20 Recruitment on August 10, 2013
7. St. Philip's College New Student Orientation recruitment at Martin Luther King Campus and at Southwest campus.

Provided a 2 week Security + training to college faculty and k7-12 teachers to the following 11 districts in San Antonio, TX. Training was scheduled for week 1: July 8-12 and week 2: July 15-19

Covered material is as follows:

- Network Security
- Network Ports and Protocols
- Risk, Compliance and Operations
- Awareness, Business Continuity and Disaster Recovery
- Threats and Attacks
- Risk Mitigation and Assessment
- Application, Host, and Data Security
- Access Control and Identity
- Cryptography

k7-12 teachers: 11 Districts

Southwest Independent School District

Celestin Arthur:

David Randy Herrera: McAuliffe M.S.

Judson Independent School District

James Christopher Devno: Judson High School (Judson ISD)

Rodney E. Neal: Karen Wagner High School (Judson ISD)

Norma Treviño: Wagner High School (Judson ISD)

San Antonio Independent School District

Jesus Omar Gallego: Brackenridge High (SAISD)

Javier Moreno: Burbank High (SAISD)

Albert P. Pena: Edison High (SAISD)

Edgewood Independent School District

Chris Jackson: John F. Kennedy High School (Edgewood ISD)

Lackland Independent School District

Russell Keller: Stacey Jr/Sr High School (Lackland ISD)

Harlandale Independent School District

Michele G. Montalvo: Harlandale High School (Harlandale ISD)

Northside Independent School District

Caroline Mora: (NISD)

John Carrera: Holmes High School (NISD)

Comal Independent School District

Gary Soechting: (Comal ISD)

Jim Moran: Smithson Valley MS (COMAL ISD)

Northeast Independent School District

Christopher Vasquez: Churchill High School (NEISD)

Russel D. Hanz: MacArthur High (NEISD)

Lytle Independent School District

Joe Corona: Lytle Jr High (Lytle ISD)

Southwest Preparatory

Reagan Short: Southwest Preparatory School (Southwest Preparatory School)

Alamo Colleges:

Raymond Chacon

Jude Thomas Manzo

Brian McDaniel

Ruben Guerrero

Guest Professionals:

Gary Lemly: UT Health Science Center

David Harris: Lockheed Martin

Anthony W. Milligan: Lockheed Martin

Jason A. Hedgepeth: Lockheed Martin

Gregory Shaw: UT Health Science Center

- Created a Marketable Skills cyber First Responders Certificate

Certificate program was formulated as soon as the grant project was submitted.

- Marketable Skills cyber First Responders Certificate has been approved by the governing board.
- Highlight Harlandale Model Information Assurance program and distribute to local high school.

Specific Objectives:

- Network Security
- Network Ports and Protocols
- Risk, Compliance and Operations
- Awareness, Business Continuity and Disaster Recovery
- Threats and Attacks
- Risk Mitigation and Assessment
- Application, Host, and Data Security
- Access Control and Identity
- Cryptography

Increase the awareness IT personal of Cyber awareness

Formulate articulation agreements with local state institution.

Establish additional Information Assurance programs in with local High schools.

Significant Results:

- Potential opportunities for developing working agreements with local high school
- Opportunities for instructors to provide accurate information to high school students in the IT field.
- Training allowed high school teachers for dual credit instruction.
- Student will be able to utilize certificates and apply them out in the workforce
- One state local institution

Key outcomes or Other achievements:

- Informing community and students of the importance of Cyber security
- Informing the uninformed
- Potential certified dual credit teachers in information assurance in cyber security.
- Constant communications with local state 4 yr institution
- Cyber Tigers
- Certificates
- Graduates
- Competition
- Tutoring
- Workshops
- 2 Seminars: National Security Agency Ceremony on May 1, 2013

- Recruitment

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

1. Security + Teacher Summer training provided by UTSA/ Center for Infrastructure Assurance and Security (CIAS)
2. Security Workshops provided by (PI) Mr. Haydar Sahin and Instructor Robert Fransman and Edith Orozco.

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

All career and Technology Education Directors were contacted via-email and via phone. Additionally, outreach activities that have been undertaken to reach our community is as follows:

- Cyber Tiger Workshop
- Meeting with Harlandale High School Principal Mr. Garcia and disseminated NSF information on April 5, 2013
- WINTO Conference Recruitment April 27, 2013
- Disseminated literature to Girl Scouts representatives 3-21-13
- Disseminated literature at Annual Open House April 9, 2013
- Recruitment efforts during The National Security Agency Ceremony May 1, 2013
- Harlandale High School Security Workshop on may 1, 2013
- Information Technology Advisory Meeting May 2, 2013
- Security Workshop May 15, 2013
- Bandera High School Recruitment and information dissemination
- Wrenn Middle School Recruitment May 28, 2013
- Harlandale High School Meeting and Recruitment May 29, 2013
- Por Vida-Academy Security Workshop and Recruitment May 30, 2013
- Bowden Elementary 5k Run Recruitment June 1, 2013
- Security +Training was conducted for college faculty and k7-12 teachers during week 1: July 8-12 and week 2: July 15-19 at the Center of Infrastructure Assurance and Security.

- Girl Scouts 2013 Cyber Tigers Ceremony took place on August 9, 2013

- Girl Scouts/Region 20 Recruitment on August 10, 2013

- St. Philip's College New Student Orientation recruitment at Martin Luther King Campus and at Southwest campus on August 22 and 23rd of 2013.

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

On the next reporting period we plan on accomplishing our goals by executing the below activities.

- PIs and key leadership staff will attend required NSF conferences/workshops, CFR seminars and trainings, and visit best practice institutions.
-
- Work with National Security Agency (NSA) to map SPC's courses to NSA's course objectives; market and advertise new CFR Program via multiple

media; offer the first courses in the CFR certificate program.

-
- Recruit Marketable Skills Award and Certificate students into associate degree program; form Cyber Tigers student organization for purpose of promoting CFR activities.
-
- Create PD seminars to facilitate field of study/career pathways from secondary schools to 2-year colleges to 4-year universities (2 +2 + 2).
- Establish 2 + 2 programs in CFR with 4-year institutions; finalize articulation agreements.
- Form a common curriculum committee comprised of SPC and college/university reps; exchange curriculum.
- Begin offering the first CFR courses under the certificate program by Fall 2014.
- During the 2014-2015 academic year, the full sequence of courses for the CFR certificate program will be offered.
- Develop and deliver periodic PD in information assurance and cyber security for middle/high school teachers; conduct survey of training.
- Develop and deliver CFR summer camps for middle/high school students;
- Develop Marketable Skills Certificate Award; create CFR lab; offer all courses in the certificate sequence.

Supporting Files

Filename	Description	Uploaded By	Uploaded On
Feb-April.pdf	NSF FILES	Haydar Sahin	08/23/2013
MAY.pdf	MAY FILES	Haydar Sahin	08/23/2013
JUNE-JULY.pdf	June- July Files	Haydar Sahin	08/23/2013
AUGUST DOCS.pdf	AUGUST	Haydar Sahin	08/23/2013

Products

Books

Nothing to report.

Book Chapters

Nothing to report.

Conference Papers and Presentations

Nothing to report.

Inventions

Nothing to report.

Journals

Nothing to report.

Licenses

Nothing to report.

Other Products

Nothing to report.

Other Publications

Nothing to report.

Patents

Nothing to report.

Technologies or Techniques

Nothing to report.

Thesis/Dissertations

Nothing to report.

Websites

Nothing to report.

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

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: -Carry out grant objectives as needed. -Participate in local IT security meetings. -Deliver K-12 cyber security workshops. (Bowden elementary school, Harlandale high school, Girl Scouts etc.) -Develop cyber first responder certificate -Participate NSA workshops at University of Texas San Antonio -Qualify College to be the center of excellence in security 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 CyberPatriot Competitions. -Help sister colleges to develop Cyber first responder certificate. -Organize and delivery security training for K-12 college instructor training.

Funding Support: 9 Months in kind 2 months by grant

International Collaboration: No

International Travel: No

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: 9 Months In kind

International Collaboration: No

International Travel: No

Janie Gonzales**Email:** jgonzales2@alamo.edu**Most Senior Project Role:** Co PD/PI**Nearest Person Month Worked:** 11

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 (Bowden Elementary School, Harlandale High School, girl scouts etc.) -Assist with development of cyber first responder certificate -Participate in NSA workshops at University of Texas San Antonio -Qualify College to be the center of excellence in security 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 2 months by grant

International Collaboration: No

International Travel: No

What other organizations have been involved as partners?

Name	Type of Partner Organization	Location
University of Texas at San Antonio	Academic Institution	San Antonio, TX

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, th 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)

What other collaborators or contacts have been involved?

NO

Impacts

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

The Cyber Security: Cyber First Responders Program has had a significant impact in school districts around San Antonio, TX by providing security workshops to middle school, High School and college staff. Additionally, 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 completion. As a result, 12 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.

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 rigourous training and workshops participating Middle School and High school faculty k7-12 and college staff they have created awarness in cyber secutiy to their respective district and school of service.

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.