**NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT**

**CYPRESS COLLEGE**

**CIS NETWORKING ADVISORY COMMITTEE MEETING**

DATE OF MEETING: APRIL 30, 2020

LOCATION: CYPRESS COLLEGE, ZOOM Meeting

MEMBERS PRESENT: Mike Huck, President, Subsync

 Jaimie Kelejian, Teacher, Magnolia High School

Frank Enos, CEO, Uptime Computer Services

Amanda Valbuena, Director of Research, UC Irvine

Eric Rohlfing, Chief Technology Officer, Occu Collect & Law Office of

Lawrence Rohlfing

Steve Linthicum, Regional Director ICT, Rancho Community College District

Lisa King, Director of Grants, North Orange County Community College District Brandon Nguyen, Cyber Mentor, Cypress College

Travis Tauro, Cybersecurity Sales Engineer, Rapid 7

Trever Samhammar, Intelligence Research Specialist, Dept. of Homeland Security

Sam Sukhon, Chief Information Security Officer, IntelligINTS

Robert Vreugdenhil , Desktop Support, PIH Health/Allscripts

Sarah Copeland, Cyber Security Senior Manager, Lockheed Martin

Eddie Bader, President, Companybuilt, Inc.

Jenn Fernandez, Director of Innovation & Partnership, Alliance for Southern

California Innovation

Malek Moubasher, Management Consultant, Technology Product Development

CYPRESS COLLEGE PERSONNEL:

 Ben Izadi, Meeting Coordinator, CIS Instructor, Cypress College

 Russ Alizadeh, CIS Instructor, Cypress College

 Daniela Juarez, Special Project Coordinator, Cypress College

Sandra Rocha, Special Project Coordinator for CS3^2, Cypress College

Ruth Obidah, Dual Enrollment/CS3^2 and Cyberpatriot Program, Cypress College

Henry Hua, Business & CIS Division Dean

1. **Henry welcomed the committee members and thanked everyone for attending.**
2. **Goal -**
	1. Have approval of our industry partners to our common goal of shaping future employees in cybersecurity to industry standards.
3. **Russ and Ben - Certificates on the pathway of the courses -**
	1. System admin or virtualization
	2. Recommendation of courses to align with certificates
	3. NETLAB for our hands-on a portion of the courses
	4. Ethical hacking and security plus
	5. DevSecOps (Security, Development, Operations) certificate
	6. Statistic achievements
		1. Cypress College has been awarded as a National Center of Academic Excellence in Cyber Defense for a two-year education system
		2. We are 1 out of 114 colleges that is being recognized
		3. Recognize cisco course and python course
		4. We are able to bring grants in because of this certificate
4. **Conferences -**
	1. Colorado Springs, mutual courses with high schools
	2. Our two students, Brandon Nguyen and Gilbert Gonzalez represented on Cypress College’s behalf.
		1. PACE Program received national recognition and won in the category of Innovation in Cybersecurity.
		2. Henry - Brandon is our 2020 Division Scholar of the Year. He has obtained a Cyber Defense Certificate and is currently at UCI on a scholarship.
5. **Goals of today’s meeting -**
	1. We want to make sure we meet everyone’s needs. How do we do program improvement while being nimble in the work we do so our students are able to complete the program and meet those requirements?
	2. Amanda – shared the survey results. Survey is still open and live and can add feedback. The survey was sent out to 33 people and we heard back from 24 people with a 73% result rate.
	3. How are people using digital badging? Half said they are using digital badges and answered that they are very highly skilled.
6. **How should we use digital badging? -**
	1. Soft skills are overlooked, and we need to understand soft skills.
	2. We want to have a system to expedite to a badging system.
	3. If the digital badge is a collection of badges, would this help an employer in hiring a potential employee?
	4. Are we on the right track?

Malek - We use to work hard to get more badges, to make it an effective reward system. Widespread recognition by colleges to spread to standardize. Get started on giving a badge and continue education to contain legitimacy of badge. Cypress College leading this or jumping into existing one ad having cc jump into this to have a recognize badge.

Steve - We need to find the value; we need the verification. Badges alone do not have a meaning.

Henry - We need to give badges the merit and star power. We need a badging system that is available to all of our students. We want to ensure our students have the tools to receive the badge. We want badges to have legitimacy.

Ben - Survey one is soft skills and technical skills

Mike - Students need to represent real word skills, internships, demonstrate they know how to do these things. Research on what is intel, we need students to have badges, but also a portfolio so it can raise communication when they are asked to interview.

Steve - Develop partnerships with organizations like: <https://www.hackersforcharity.org>

Frank – I agree with Mike,

Malek - We can measure soft skills with frameworks.

Steve - I would like to see students get involved with nonprofits, to get students out and do the work.

Henry - The students should be able to show some relevancy to the job they are applying for.

Russ reviewed our different certification programs. He would like to know if there are other certifications that we can include in the program.

Trevor – Provide a test and provide certificates to companies. He can give Cypress College the curriculum.

Sara – I agree with the value of badges. A lot of it has to be with marketing the value.

Henry – What are important job candidate traits? Soft skills were first over hardware and software skills. Badges offer adaptability, social awareness, resilience, communication, within each one of the badges there is curriculum related projects.

Eddie - I agree with Mike. It is different watching videos and reading what to do. Students need to experience it in real environments. Instead of a traditional classroom, students are placed in a cubicle, working with other people. The students have gone through listening skills, communication skills, and they get feedback from their peers. Students need to practice oral presentations and practice them until they get it right. Students could put on a Computer Information Systems showcase.

Mike – It is not just a class; it is a badge that represents what they are good at. Not all students have the same skill sets. Let the badges be exclusive, peer review or teacher review badges because the professor has that knowledge. If our teachers are evaluating the students, do we want teachers to choose observable qualities and teachers are the primary evaluators? With different level of badges, we can give them a quick evaluation. We can look at their profiles and see where they excel, work well independently, have soft skills, have life skills, etc. We do not want to see 25 merit badges because then they don’t mean anything.

Jaimie - As a teacher you get to know your students.

Ben - By end of two years, the students take different courses. The instructors can get together to evaluate the senior students. We need to know how to develop soft skills.

Mike - We would like to see the progression.

Henry - Our first group of students who are currently going through the process are in 8th grade. We can see how that goes.

Jaimie - To join pipeline

Sandra – We want our 8th graders to interact. We are developing every year, and we want our students to strive to get better.

Next step - possible solutions to issue on what our advisory members need.

1. **Subcommittee participation -**
	1. Travis - I am willing to sit in the subcommittee as well as Eddie. Eddie can bring in more partners,
	2. Mike - I suggest communication, collaboration, entrepreneurial mindset, analysis/solution mindset.
	3. Mike – I also recommend offering DevSecOps (Security, Development, Operations) certificate (since this is the business and consulting service I offer to my clients and I anticipate a lot of demand and need for such skill set). I currently have 5 interns from Cypress College performing DevOps and DevSecOps functions in my company.
	4. Sam, Travis, and Malek – Expressed how employers joining their development, security, and operations teams under DevSecOps and because of wide acceptance of cloud computing and popularity of agile project management, there is going to be a lot of job opportunities for students with DevSecOps certificate and know-how.
	5. All members agreed how everyone needs to be accountable for security with the objective of implementing security decisions and actions at the same scale and speed as development and operations decisions and actions and should start thinking about application and infrastructure security from the start as it is advocated in DevSecOps rather than an afterthought.
2. **Send out additional dates for October for next advisory meeting.**

1. **End of meeting**

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Ben Izadi, CIS Instructor Henry Hua, Dean of Business & CIS