



Cybersecurity on the Move

Pop-Up CTFs Elevating Awareness, Skills, and Career Paths

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2024 CAE Community Symposium

Problems to Overcome

- Eastern Florida State College – Brevard County “Space Coast Florida”
- Pandemic brought challenges to outreach
- Elementary, middle and high schools unable to tour campuses
 - Staffing issues
 - Busing
 - Student willingness
- Capture the flag and student events
 - Computer equipment hauled around by personal faculty and student vehicles
- USF Cyber Pathways Grant

2024



How do we
revolutionize
cybersecurity
literacy?

How do we raise
community
awareness?

How do we inspire
youth to join the
cyber workforce?



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Conceptualization of a “Pop-Up” CTF

- Pop-Up Concepts (Stores, treasure hunts, bars)
- Transform the pop-up concept to capture the flag
 - Create a fair like atmosphere
 - Booths to encourage engagement
 - Multiple modalities
 - Wide range of age groups



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MENTOR



INSPIRE



EFSC Cyber Titans

01

Cyber Defense Internships, Community Presentations, Design CTFs

02

Cyber Titans mentor BPS students by supporting CTF events

03

Cyber Titans encourage development of cybersecurity skills through Discord communities



POWER SKILLS

04

Cyber Titans enhance their power skills through mentoring, presenting, and designing

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The "Cyber Van" Concept to Reality



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The “Cyber Van” Reality



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Challenges

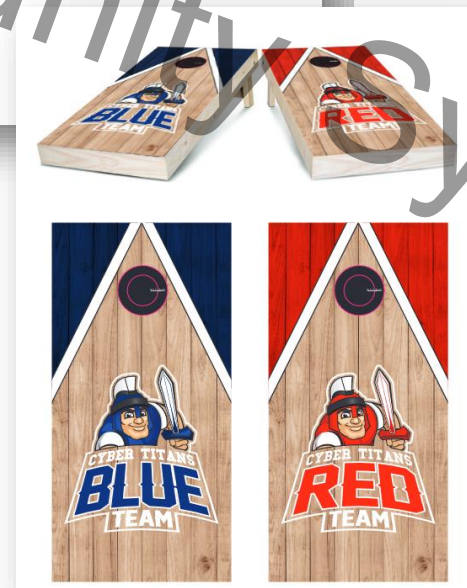
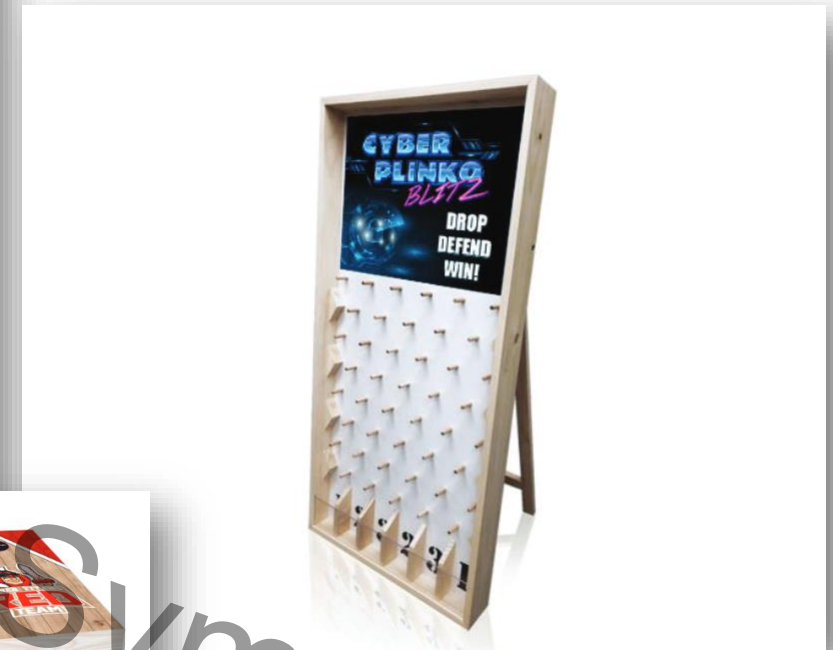
- Why a van?????
- Administration on board?
- Educating the entire organization of its learning objective and purpose
 - Accounting, Grant team, Faculty & Staff
 - Support after grant fulfillment

A "Pop-Up CTF" is a capture the flag event where cybersecurity, forensics and security awareness challenges are presented in a fair atmosphere.



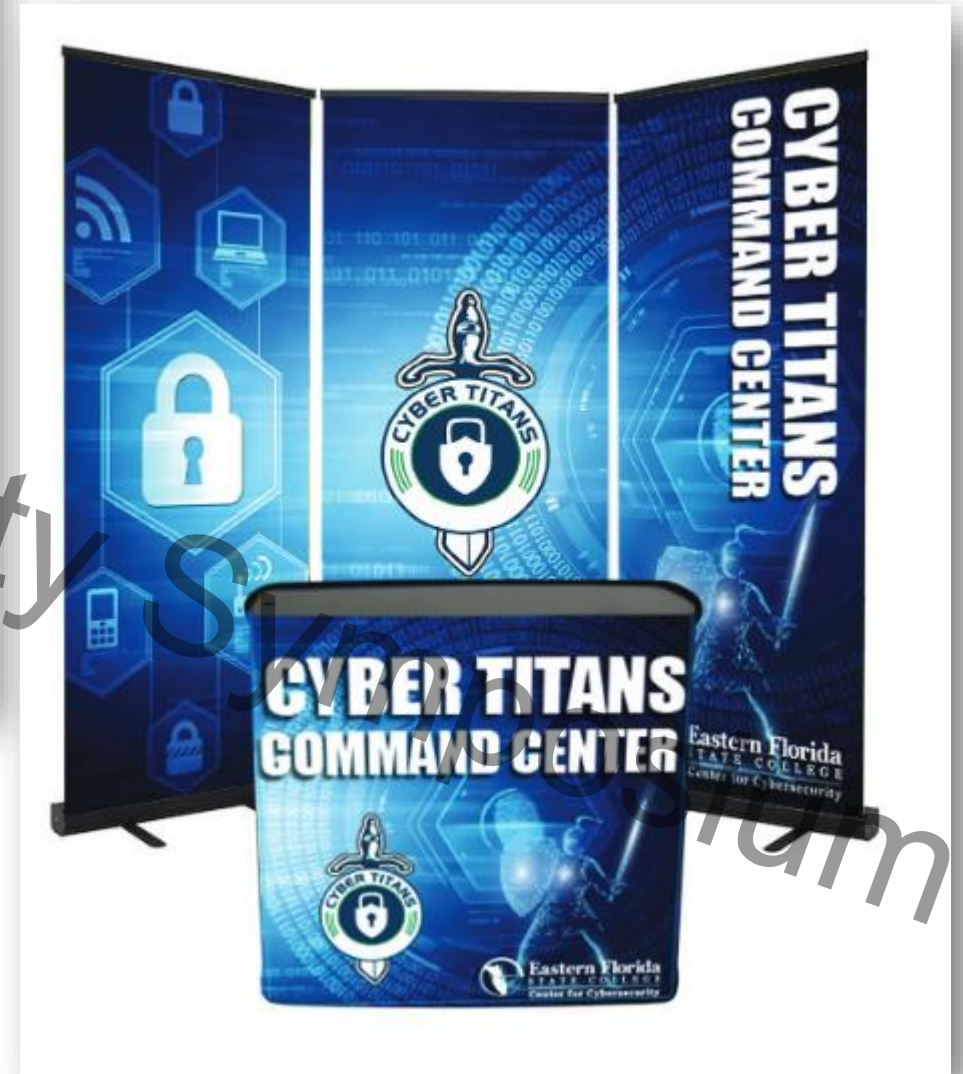
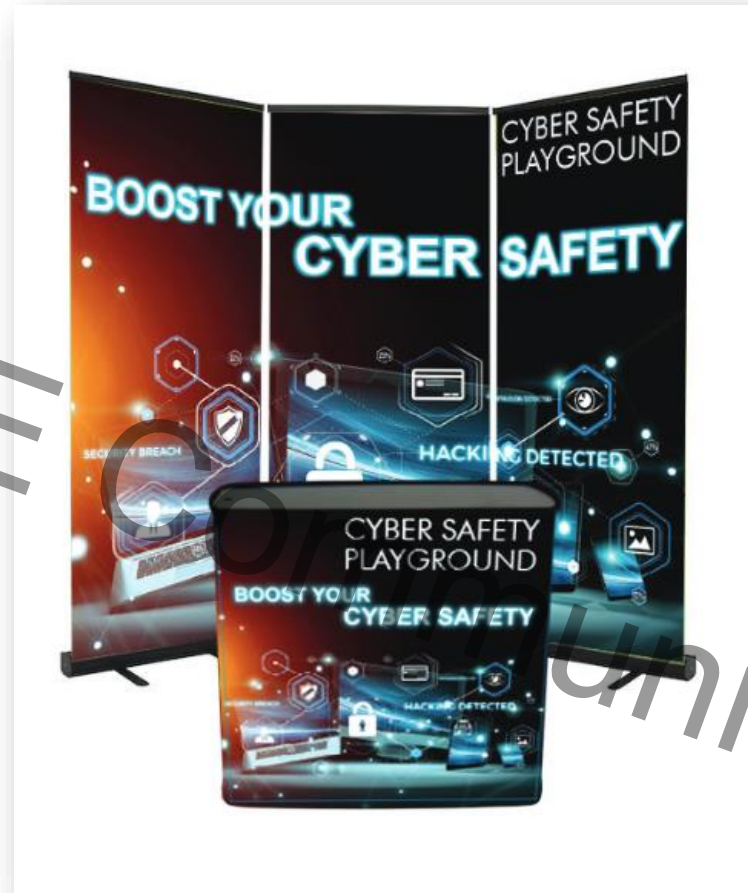
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Fair Atmosphere



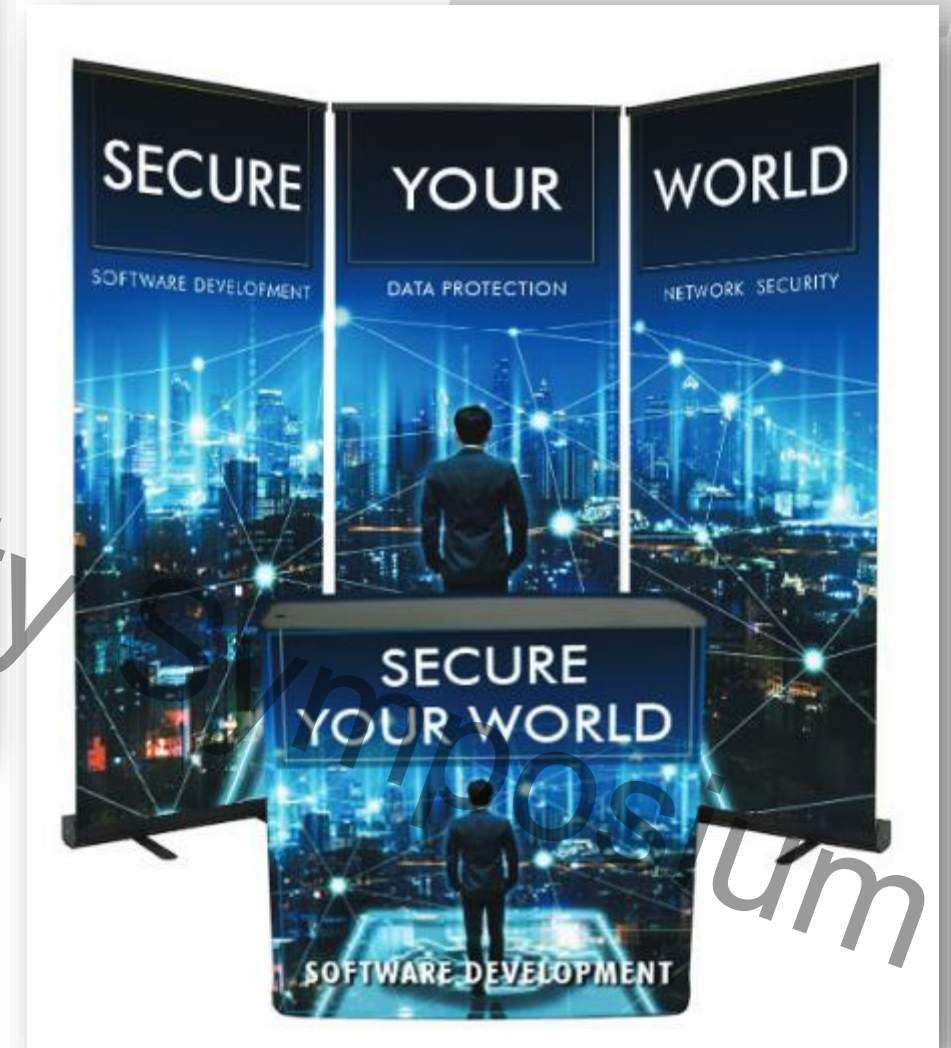
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Fair Atmosphere



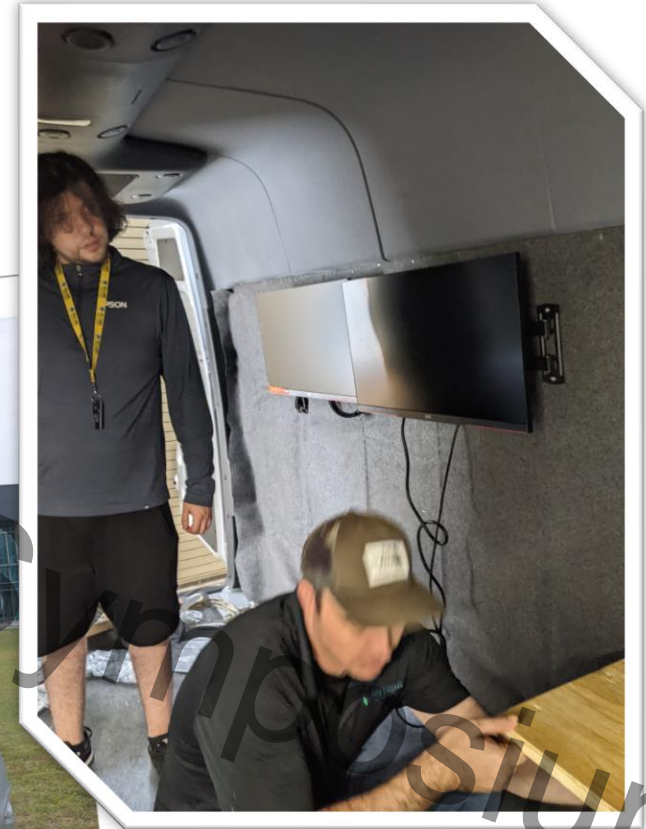
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Fair Atmosphere



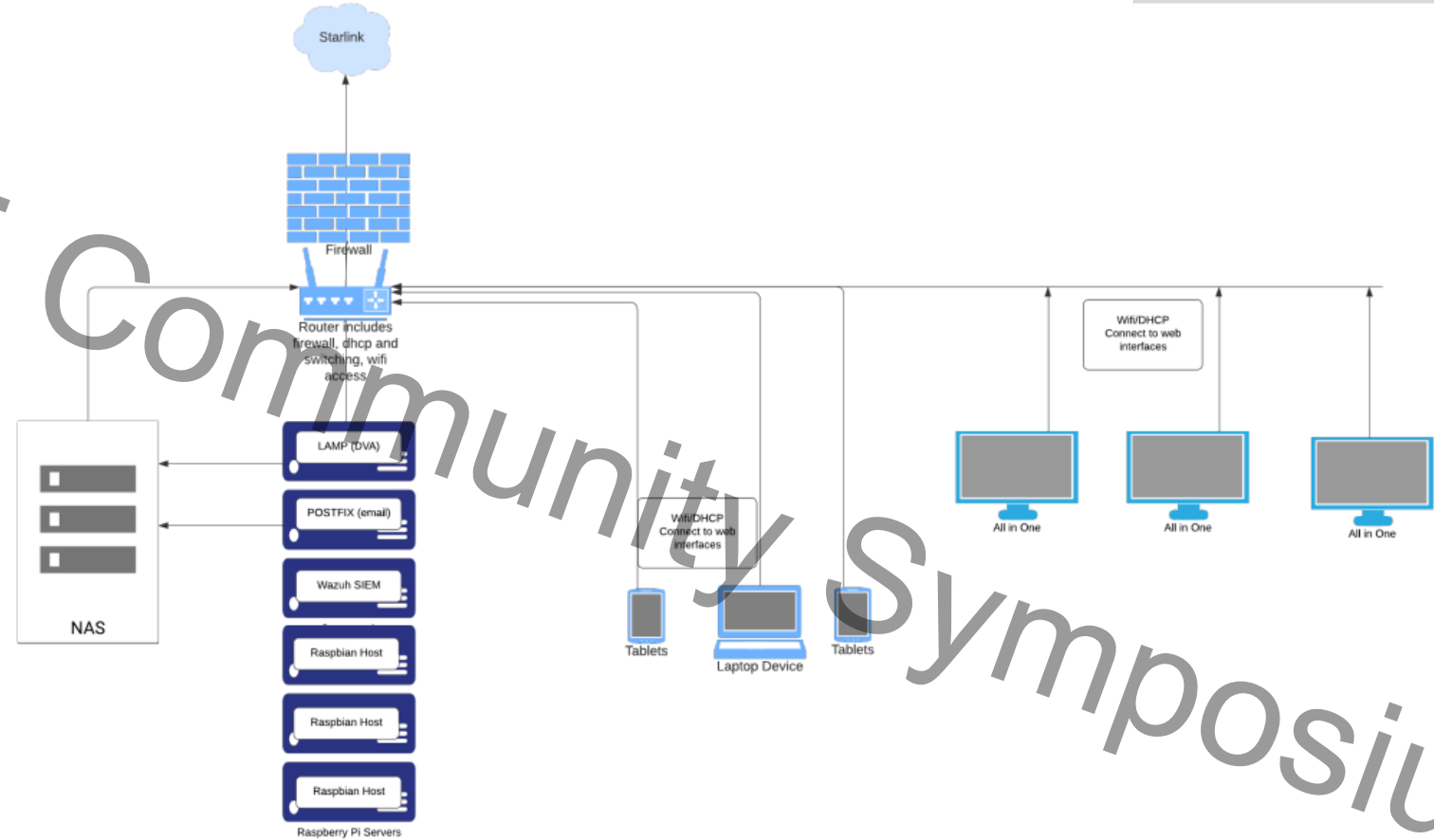
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Student Built
Designed by faculty
and students



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Small scale enterprise network with SIEM and Forensics tools



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Small scale
enterprise network
with SIEM and
Forensics tools



Future Plans

- Learning Outcomes with learning plans and hands on labs
 - NICE Framework
 - Resource sharing
 - Hands on labs for each booth utilizing raspberry pis, tablets, IoT
- Summer camps and end of school year trips
- Community outreach events
- Public library, senior outreach, small businesses

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Images

<https://www.flickr.com/photos/easternflorida/>

<https://easternflorida.edu/ccdf/>

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Questions?

