



General

FA2025 • 2025-08-31

Introduction

SIGPwny Team

Overview

- What is SIGPwny?
- How to join SIGPwny?
- Who is SIGPwny?
- Women in CyberSecurity @ Illinois
- Ground Rules
- What does SIGPwny do?



What is SIGPwny?

Why were we yelling at you at Quad Day?



SIG • Pwn • y



**Special
Interest
Group**



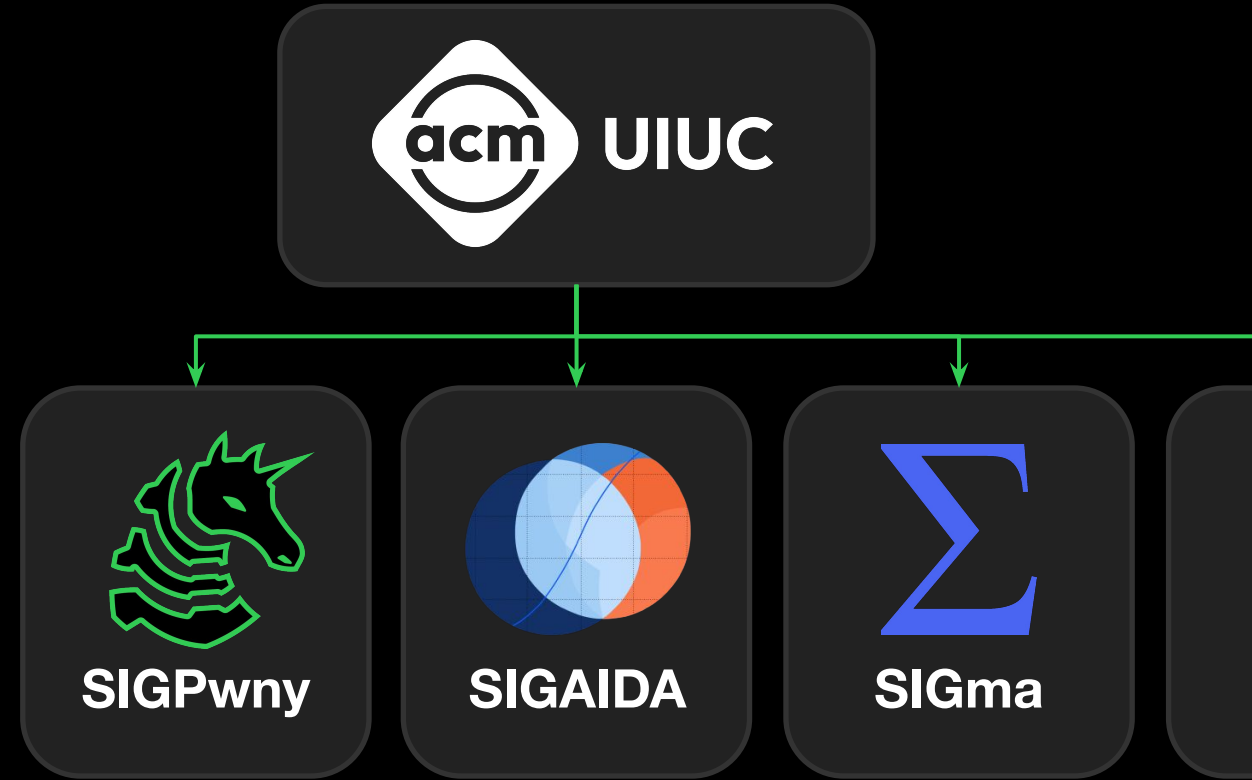
**Hack
or "own"
(slang)**



**For
cool
logo**

About Us

- We are the computer security/hacking club at UIUC
- SIGPwny is under the Association of Computing Machinery chapter at UIUC
 - We are the largest SIG in ACM!



SIGPwny is just one of many SIGs...
but it's the best one





How do I join SIGPwny?

You already have!

sigpwny.com/discord to join our Discord server

sigpwny.com/auth to receive the **@UIUC** role



Who is SIGPwny?

See sigpwny.com/about



Admin Team



Cameron Asher

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Minh Duong

@WhiteHoodHacker
Security Research @ MSFT



Akhil Bharanidhar

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SWE Intern @ Pinterest



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SWE Intern @ Meta



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Security Research Intern @
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Red Team @ Sandia



Sam Ruggerio

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Research @ UIUC



Helper Team



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@rbowdarsh
NLP Research @ NCSA



Bryce Kurfman

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ICS Cyber @BWDG



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Research Intern @ MITRE



Michael Khalaf

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Network Operations @ ITI



Swetha Karthikeyan

@sway_k
DSP @ Caterpillar



Suchit Bapatla

@suchit
Vulnerability Research @
REDLattice



Women in CyberSecurity



Bring together those interested in cybersecurity

Share knowledge, experience, networking and mentoring



Host workshops, networking opportunities, and tech talks

Beginner-friendly web dev + security projects





Connect with us!



Join our Discord

Get meeting updates

Sign up for emails

Board Applications!



Now, some ground rules.



Code of Conduct

1. Be respectful.
2. Be inclusive.
3. Nothing illegal.
4. Don't cheat.
5. No NSFW or suggestive content in Discord.
6. Don't spam in Discord.
7. Use common sense.

The full Code of Conduct is available at sigpwny.com/rules.

Report misconduct to sigpwny.com/report.



You Will:

- Learn how to think with an adversarial mindset
- Explore the subcategories of security
- Develop practical security skills
- Find a community of friends and colleagues



You Will Not:

- Learn how to hack your friend's Instagram account!
- Become a 1337 hax0r (praise anonymous!!1!!)
- Break into computers without explicit permission
- Learn how to hack overnight



The "Don't Get Arrested" Slide

Computer Fraud and Abuse Act (CFAA)

- Attacking "protected" computers is **ILLEGAL**
- Anywhere between a fine and **TWENTY** years in jail
- If you don't have **EXPLICIT** permission, **DON'T DO IT**



Survey!

Please fill out this survey so we can plan our semester for you!

sigpwny.com/survey



What does SIGPwny do?



Learn

Compete

Build

Learn

Meetings

Pwny CTF

Compete

CTF Team

Purple Team

Embedded Team

Build

UIUCTF

Fall CTF

Meetings

Thursdays, 6-7 PM

DCL 1310

- 15 minutes talking
- 45 minutes doing

Sundays, 5-6 PM

Siebel CS 1404

- 15 minutes talking
- 45 minutes doing

OR

- 1 hour of extended lecture

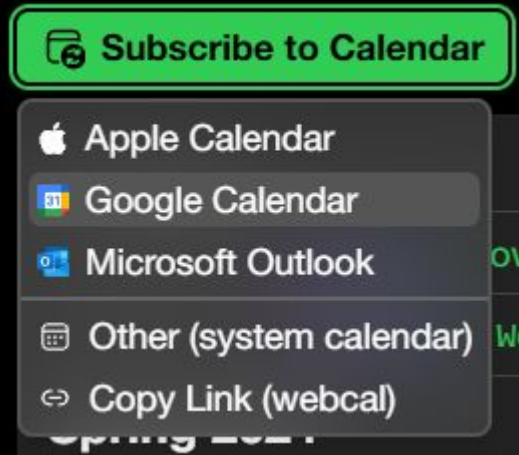
All our meetings are at:

<https://sigpwny.com/meetings/>



Meetings

- Subscribe to our calendar!
- Add from sigpwny.com/meetings or directly using these links:
 - Apple Calendar:
sigpwny.com/applecal
 - Google Calendar:
sigpwny.com/gcal
 - Microsoft Outlook:
sigpwny.com/outlook
 - Webcal:
sigpwny.com/cal



03:07

96

< Aug 29

Event Details

Introduction

Siebel Center for Computer Science
201 N Goodwin Ave, Urbana, IL 61801, United States

zoom

Zoom

Join



Thursday, Aug 29, 2024
from 18:00 to 19:00

17:00

18:00

19:00

20:00

Introduction Siebel Center for Computer Science...

Calendar

SIGPwny

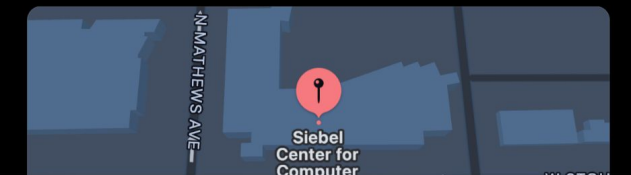
Alert

Time to Leave

Notes

<https://sigpwny.com/meetings/fa2024/2024-08-29/>

Location: Siebel CS 1404



Unsubscribe from This Calendar

Teaching Philosophy

Cybersecurity is needed for every aspect of computer science!

Websites



Web Security

Messages



Cryptography

Video Games



Binary Exploitation,
Reverse-Engineering



Teaching Philosophy

SIGPwny's goal is NOT to make you a master in any field...

Web
Hacking

Reverse
Engineering

Binary
Exploitation

Crypto
graphy

Infra
Security

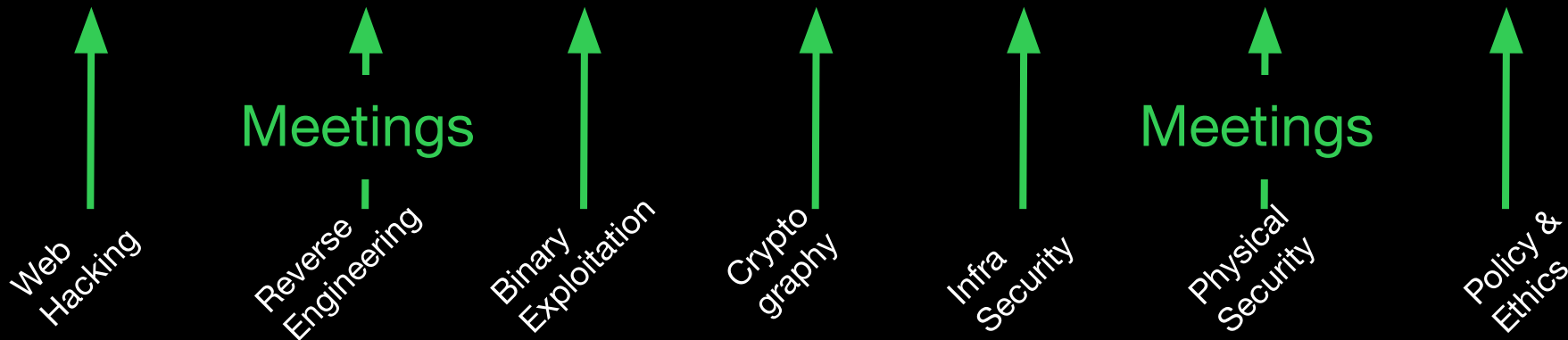
Physical
Security

Policy &
Ethics



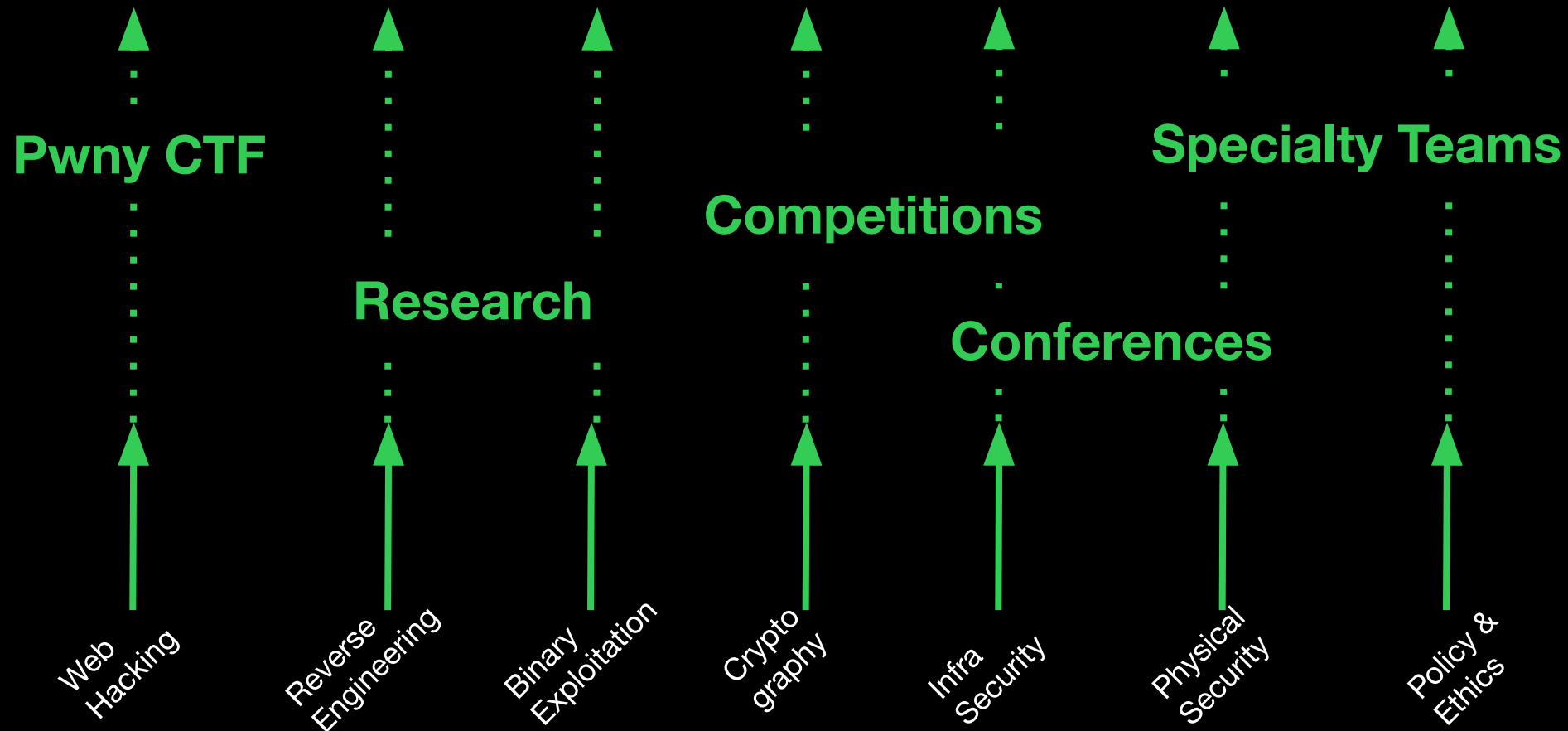
Teaching Philosophy

... but it is our goal to teach you the basics of every field...



Teaching Philosophy

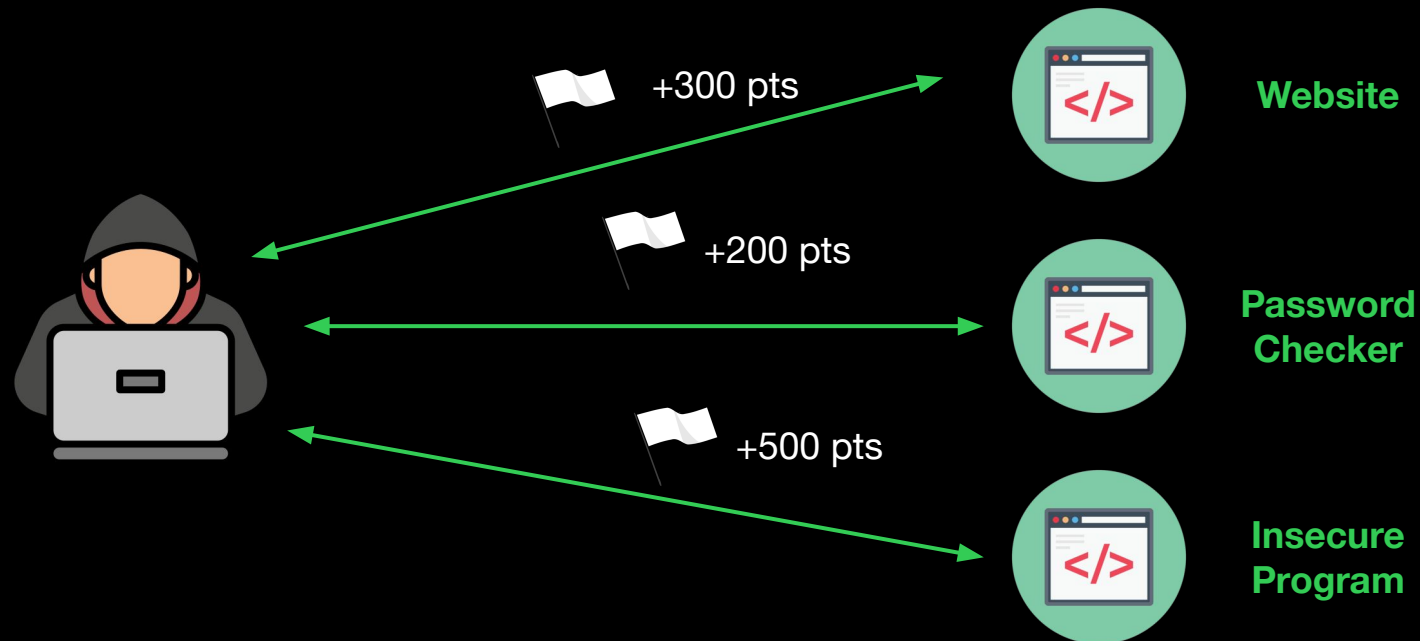
... and provide opportunities for **you** to master your interests!



What is Capture the Flag (CTF)?



- A CTF is a cybersecurity competition
- Compete against other teams
- "Jeopardy style" - hack the most (and hardest) things to win

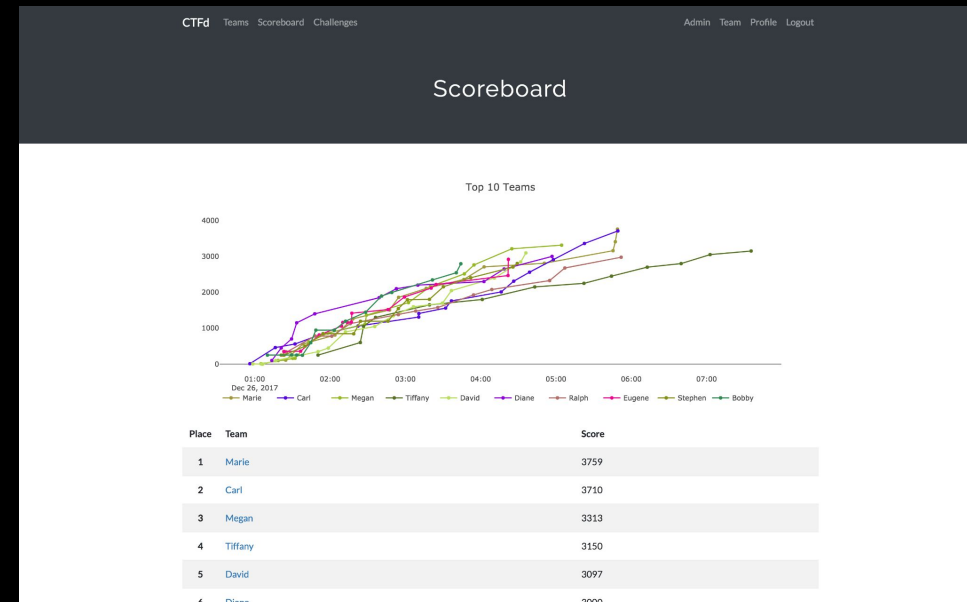


Pwny CTF

- The best way to practice your security knowledge!
- Pwny CTF is our internal, 24/7/365 CTF with a leaderboard to compete with friends!

ctf.sigpwny.com

Sign up now!



Learn

Meetings

Pwny CTF

Compete

CTF Team

Purple Team

Embedded Team

Build

UIUCTF

Fall CTF

CTF Team

- We participate in various CTFs hosted by other teams
- CTFtime is a global leaderboard that tracks team placement in CTFs and provides ratings



Overall rating place: **300** with **77.673** pts in 2019

Country place: **31**

Overall rating place: **136** with **174.389** pts in 2020

Country place: **19**

Overall rating place: **80** with **243.217** pts in 2021

Country place: **12**

Overall rating place: **48** with **346.020** pts in 2022

Country place: **6**

Overall rating place: **107** with **282.130** pts in 2023

Country place: **11**

Overall rating place: **88** with **344.702** pts in 2024

Country place: **11**

overall rating place: **1** with **9999** pts in 2025
country place: **1**



CTF Team

- Everyone is welcome to join CTF team!
- Our normal Thursday/Sunday meetings prepare you for CTFs!
- Most CTFs are usually a weekend long - we will have a dedicated room for people to collaborate and solve challenges. Plus, free food :D

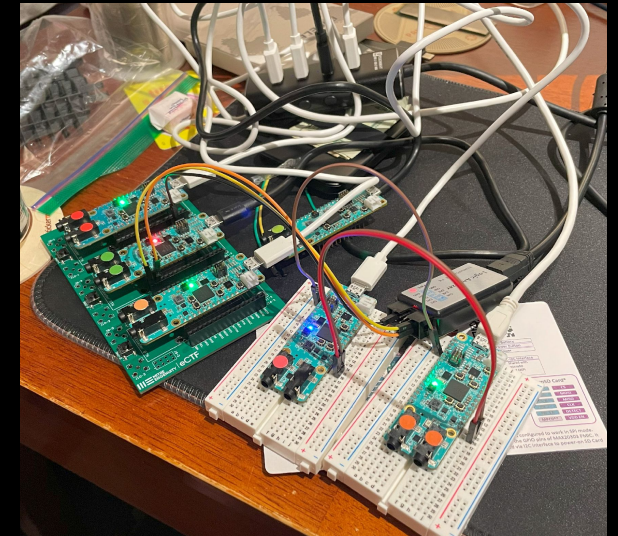
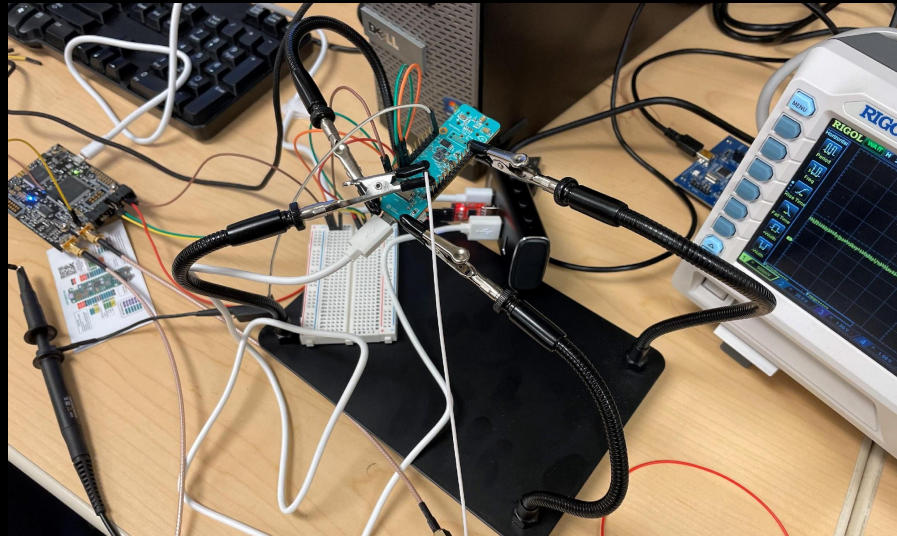
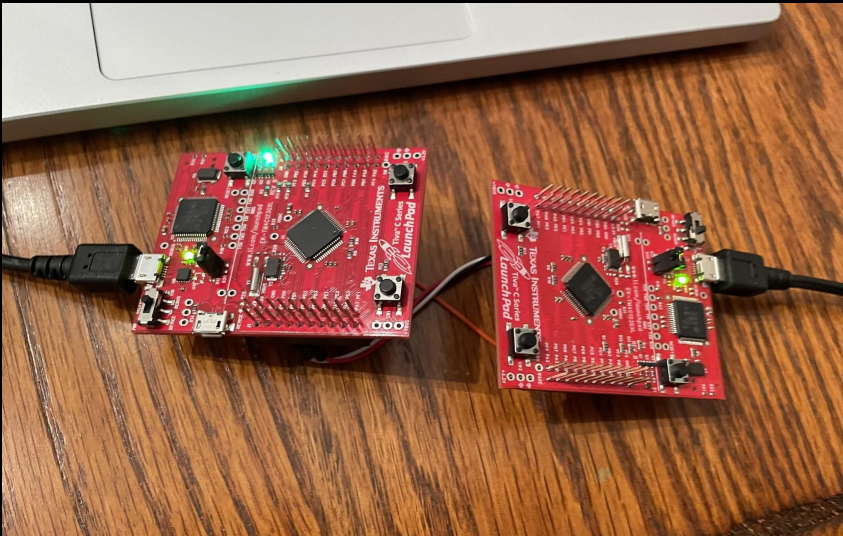
How to join CTF Team:

- Use the command `/ctfs optin` in our Discord. You need to have the `@UIUC` role first!



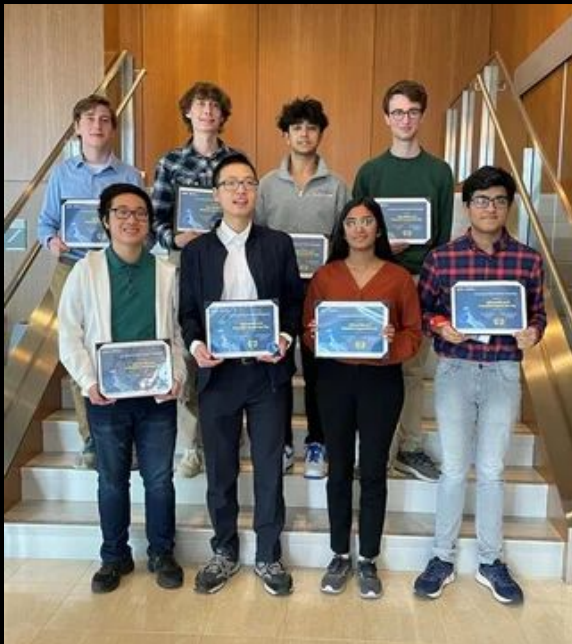
Embedded Team

- We teach you how to design secure embedded systems!
- We run attacks against embedded systems + IoT devices!
 - Microcontrollers, firmware bugs, side-channel analysis, fault injection!
- You will learn: ARM assembly, C, and Rust



Embedded Team

- Our main competition is MITRE eCTF in the spring semester
- This fall semester, we will be holding weekly meetings on Mondays to teach you embedded security!



eCTF 2023 - 3rd Place

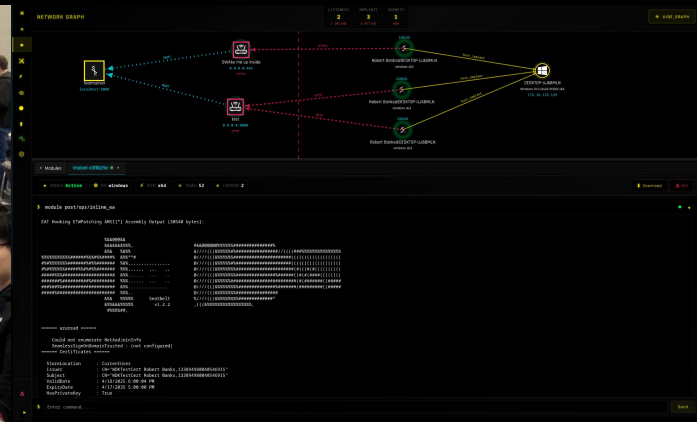


eCTF 2024 – 2nd Place



Purple Team

- **Red teaming** - break systems
 - Find problems before threat actors find them
- **Blue teaming** - protect systems
 - Fix problems before threat actors take advantage of them
- **Purple teaming** is the intersection of these two fields!



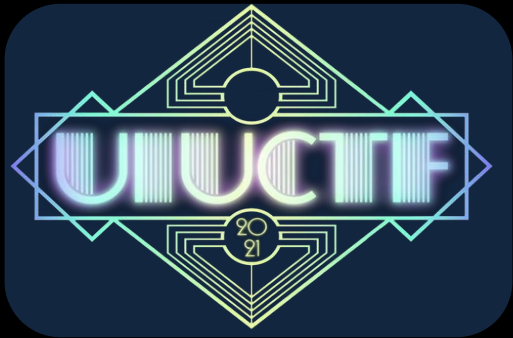
Purple Team

- Learn how to attack and defend enterprise networks
 - Red side: Offensive fundamentals, malware dev, evasion, & more!
 - Blue side: Hardening, digital forensics, live response
- Competitions: CyberForce, CCDC, TracerFIRE & more!
- Tentatively: 7PM Tuesday/Thursday
- If you have cyber defense or offense experience, contact us!
- Red Team Lead: Ronan Boyarski | ronanpb2@illinois.edu
- Blue Team Lead: Michael Khalaf | mkhala6@illinois.edu



UIUCTF (Spring/Summer 2026)

- Our global CTF event for the international security community!
- Design challenges for hundreds of people to solve
- Show off what you've learned and contribute to security education



Fall CTF 2025

- Save the date: September 21st!
- Fall CTF is a beginner CTF that SIGPwny runs exclusively for UIUC students and made for people new to cybersecurity!
- Free food, shirt, PCB badge, and prizes!



Fall CTF 2025

Register now to reserve your
shirt and badge!

sigpwny.com/fallctf



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Next Meetings

2024-09-02 • This Tuesday

- ACM Open House!
- 6 PM @ CIF 0027/1025

2024-09-04 • This Thursday

- Setup Meeting + Intro to Terminal
- Bring your laptop!
- 6 PM @ DCL 1310

2024-09-06 • This Saturday

- Picnic, chalk, and board games!
- 3 PM @ Main Quad/Illini Union

sigpwny.com/gcal



sigpwny.com/discord



Thank you! Any questions?

**Meeting content can be found at
sigpwny.com/meetings.**

