

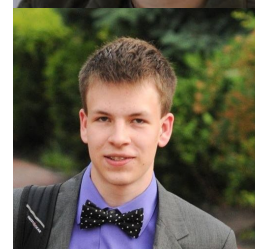
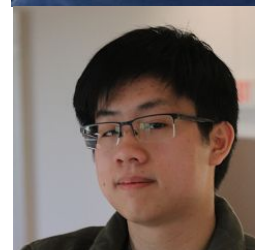
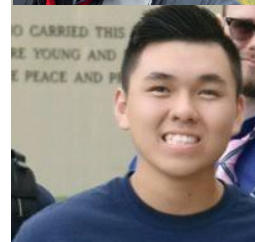
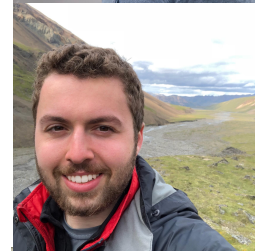
Mason Competitive Cyber

Welcome to CC



About Our E-Board

- Michael Bailey
 - President
- Paul Benoit
 - Vice President
- Chuck Tran
 - Competitions Officer
- Brandon Wong
 - Secretary
- Andrew Chapin
 - Treasurer



Social Media



@masoncompcyber



Our Sponsors

- Battelle
 - Paid for shirts, helping pay competitions
 - Good employer, esp. for RE
 - **Battelle Cyber Challenge**
- The Crypsis Group
 - Paying for servers, probably competitions
 - Good employer, esp. for DFIR

Reminder: Handshake exists



Requirements to join MasonCC

- You are a current or past GMU student
- ANY MAJOR
- Don't have a skill base in cyber security?
 - We have links to help you build one
go.gmu.edu/ccbeginners
 - Some of our talks are more basic than others



BRANDON IS DEAD TO US



Key Links



Website

competitivecyber.club

Training Content

go.gmu.edu/cctraining

go.gmu.edu/ccbeginners

tctf.competitivecyber.club

Recordings

videos.competitivecyber.club

Flash Poll



go.gmu.edu/poll



nothing to see here



[Direct poll Link]

What's a CTF?

- The ones we do are largely jeopardy:

Jeopardy-style CTFs has a couple of questions (tasks) in range of categories. For example, Web, Forensic, Crypto, Binary or something else. Team[s] can gain points for every solved task. More points for more complicated tasks usually. Sometimes, the next task in line can be opened only after some team solve previous task. Then the game time is over sum of points shows you a CTF winner. Famous example of such CTF is [Defcon CTF quals](#).

- CTFtime, heavily edited



How does MasonCC do competitions?

- Online CTFs
 - Slack
 - channels for each comp
 - #ctf-watch
 - competitivecyber.club
 - Usually over a weekend. Fri-Sun
 - Spend 15min or spend hours
- In-Person Competitions
 - Carpool
 - Occasionally overnight at hotels
 - Slack when we're competing



Call for Competitors

- National Cyber League Spring



- CCDC



CC Previously...

- **1st Place** - VT Summit, Cyber Fusion, AWS Security Coding Challenge, Both Capital One and Booz Allen CTF wargames
- **2nd Place** in RIT RC3 CTF, 3rd in Cyberdawg CTF and Booz Allen CTF
- **Hiring from:** Crypsis Group, Battelle, Kyrus Tech, Leidos, PFP Cybersecurity, Booz Allen Hamilton, etc
- Recognition from @MarkWarner, @GeorgeMasonU, and VSE News twice



Tracks System

- **Green** and **Gold** tracks
 - Neither are “advanced” or “basic” by design
- Corporate guests = Single track
 - We don’t want to see someone who funds us have to fight a student for attendance
- Available on:
<https://competitivecyber.club/meeting/>
- Announced in Slack and via Email List



Upcoming Talks (Tentative)

Talk	Speaker
Intro	Paul & Mike
Linux For Security Work (Setup and Customization)	Mike
Linux Privilege Escalation	Paul
Angr: A Binary Analysis Framework	Caffix
Windows Privilege Escalation	Paul
(Topic TBD)	Tyler
Buffer Overflows	Paul
Active Offense: Nmap Metasploit etc	Mike
Fun Raspberry Pi Projects	Paul
XSS	1pwnch
Hardware Hacking	Chuck
Web App Sec	Mike



Upcoming Talks (Tentative)

Talk	Speaker
Quantum Crypto	Cothan
Exploitation in AWS	Mike
From XML to IoCs: Rapid DFIR	Mike
Career Rountables: Talking Jobs with Members	ppl with jobs
Windows Privilege Escalation	Paul



Past Talks

Hackazon and more
Club Intro/Training CTF Challenges
Forensics, Complete with Weird CSAW Problems
Web Exploitation
backdoorCTF practice arena
Linux, Scripting, and Regex
Sam (of Kudu Dynamics) on CSAW CTF 2017 problems
Cryptography (not simple ciphers)
Python and Ruby CTF scripting, Regex
Amazon Web Services EC2
Rob Shein of PwC on Car Hacking
Hardware Hacking with Chuck
Web Exploitation 2
Basic Linux with Mike
Shellcode with Chris (caffix)
Forensics
Docker: Virtualization for Poor People
Networking
Format String with Chris (caffix)
GRIMM Challenge
HackTheBox.eu (GET AN INVITE)
Steganography
DEP and ASLR Bypass with Chris (caffix)
Intro. Reverse Engineering
GRIMM Meeting
1pwnch - Dirty Magic of Webshell
Android APK (App) Reversing with Tyler
Antivirus Evasion
Attack/Defense with Hands-On
Best Of Defcon Screening & Bring Food/Snacks
CC Intro + Scanning & Attacking Hosts (metasploit/nmap)

Profiling & Dissecting a Web App: Recon to Scanning
Corey Sheldon of Fedora, Ameridea on System Hardening
Cyber Fusion 2017 Simulation: Problem Sets and Walkthroughs from the Real Event
Host Based Forensics
Kirstie Failey (The Crypsis Group): The Incident Response Process
Love our Logs: Using Splunk to Identify Threats and Pattern
Paul - CTF Tools CC Uses
Physical Security, Lockpicking, & RFID
Power Grid Security with PwC
Profiling & Dissecting a Web App: Pwning and Footholds
William Burke IV DHS Red Teaming Talk
... And more



New This Year

- **Hosting a CTF in November**
 - Full on situation
- Open to paid competitions
 - CCDC and NCL
- More social events
 - Informal stuff #friends
 - Study ones
 - People competing ones
- More spending
 - Different spending patterns
 - “Las Vegas” is a line item this year
 - Zero percent chance it happens, but a fun example!



Sponsors

- We have them
- Heavily vetted (people generally work there)
- Interest comes first, *then* we ask them for money
- Apply for them
 - They're here because they want members



Proud Sponsors



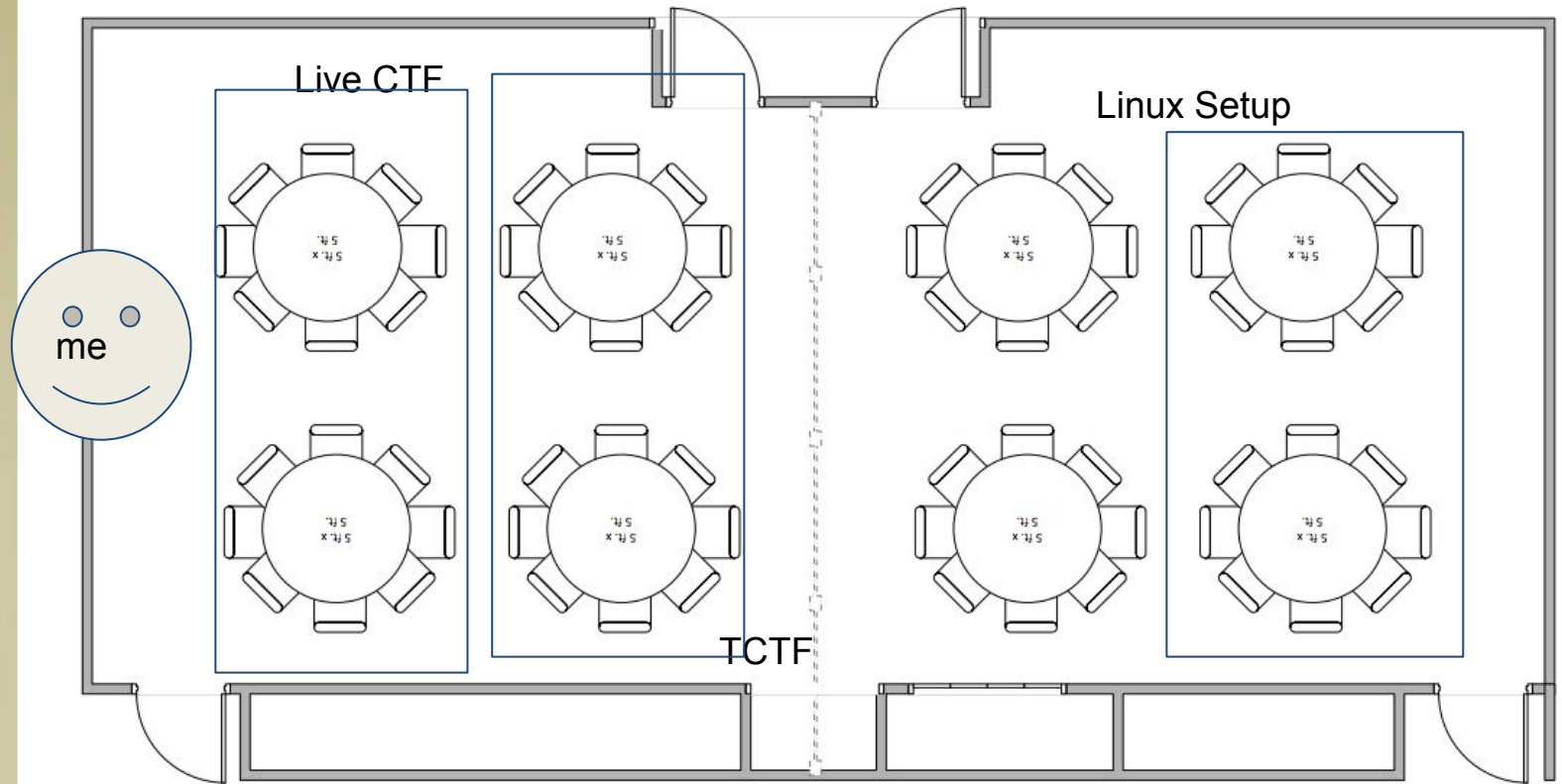
Thank you to these organizations who give us their support
They're hiring and have hired us before

BATTELLE

It can be done™

© RYPSIS™

What we're doing now...



Imagine there are tables...



COMMENCE

