

AI TACTICAL SKILLS: DRONE HACKING & DEFENSE LEVEL 2



The Artificial Intelligence Drone Hacking & Defense Level 2 program is a hands-on practical course, you are guaranteed to leave this class with the skills needed to deal with all types of AI robotics, drones and autonomous vehicles.

5 DAYS | **Online / In person / Hybrid** | **INTERMEDIATE**

EACH PARTICIPANT GETS:

- **DRONE** with controller
- **HACKING TOOLKIT**
- **6 months access to Premier Private Lab-Range**

Level 2 is a 5-day course structured and designed to firstly be dynamically updated based on industry evolution and expected levels of competent skills and practical real-world capabilities for building, modifying and designing robotic vehicles, with focus on drones, UAV, UAS, AI/ML, swarming, hardware, software and latest sensors.

CYBER2 LABS

WWW.CYBER2LABS.COM

INFO@CYBER2LABS.COM

*Build your AI
Tactical Skills*

AI TACTICAL SKILLS: DRONE HACKING & DEFENSE



LEVEL 2

OUTLINE

- ▶ Reverse engineering drone software and firmware
- ▶ Analyzing and manipulating drone data transmissions
- ▶ Advanced drone hijacking techniques and countermeasures
- ▶ Mitigating drone-related security risks in critical infrastructure environments
- ▶ Drone cyber espionage and industrial espionage
- ▶ Drone forensics and incident response
- ▶ Creating and using drone jamming devices
- ▶ Developing drone-specific malware and viruses
- ▶ Drone-based social engineering attacks
- ▶ Network security for drone swarms
- ▶ Developing secure drone apps and APIs
- ▶ Identifying and responding to drone-based threats
- ▶ Vulnerability testing and penetration testing for drones
- ▶ Drone cybersecurity in the context of smart cities and IoT
- ▶ Best practices for securing drone delivery systems
- ▶ Securing drones in military and defense contexts
- ▶ Hacking drones for surveillance and reconnaissance

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AI TACTICAL SKILLS:

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HACKING & DEFENSE



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- ▶ Developing secure drone networks for first responders
- ▶ Best practices for securing drones in agriculture and environmental monitoring
- ▶ Mitigating risks associated with autonomous drones
- ▶ Legal and regulatory frameworks for drone cybersecurity
- ▶ Physical security for drone facilities and operations
- ▶ Identifying and responding to drone-based cyberattacks
- ▶ Encryption and cryptography for drone security
- ▶ Developing secure protocols for drone swarm communications
- ▶ Securing drone data in cloud and edge environments
- ▶ Drone-based ransomware attacks and defense
- ▶ IoT security challenges for drones and drone networks
- ▶ Developing secure drone supply chains

AI

→ BUILD

→ HACK

→ DETECT

→ DEFEND

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HACKING & DEFENSE



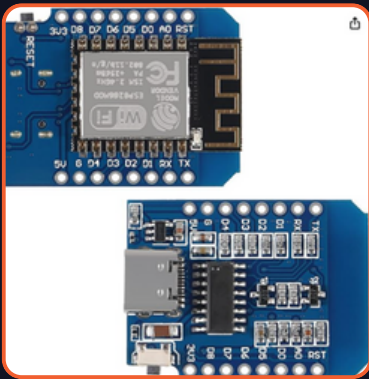
LEVEL 2

We will utilize in this course:

- ▶ A pre-built mobile hardware system such as a Raspberry Pi or a laptop
- ▶ Live Cloud based remote lab range and electronic interactive content

CYBER2 LABS Hardware Toolkit

1. Type-C ESP8266 Wemos D1 mini



2. Toolkit Case



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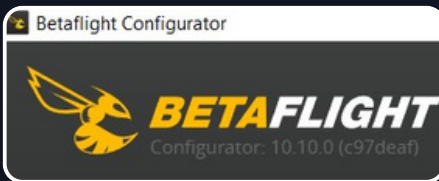
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3. Drone Kit (Drone and Controller)



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LEVEL 2

We recommend that those interested in the Level 2 course complete the **Drone Hacking & Defense Level 1** training or to have equivalent knowledge and skills.

TARGET AUDIENCE

- Cyber Security engineers / analysts
- Network and system administrators
- Drone & Robotic Engineers & Developers
- Drone Operators
- Digital Forensics Investigators
- Penetration Testers
- Cloud computing personnel
- Cloud project managers
- Operations support looking for career advancement



Prior knowledge of robotics or UAVs will be helpful, including your foundational skills in building, modifying, AI robotics, drone flight planning, security, hacking, forensic detection, and defense.

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