

AI TACTICAL SKILLS: DRONE HACKING & DEFENSE LEVEL 1



The Artificial Intelligence Drone Hacking & Defense program is a hands-on practical course, straight to the point, 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** | **ALL LEVELS**

EACH PARTICIPANT GETS:

- **DRONE**
- **Hacking toolkit**
- **6 months access to Premier Private Lab-Range**

5-day AI Tactical Skills: Drone Hacking & Defense Level 1 (fundamentals) course is 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

AI TACTICAL SKILLS: DRONE HACKING & DEFENSE



LEVEL 1

COURSE OBJECTIVES

- ▶ Introduction to drones and their components
- ▶ Basic principles of drone operation and control systems
- ▶ Drone communication protocols and vulnerabilities
- ▶ Wireless network security and drone data protection
- ▶ Drone hardware security and hacking techniques
- ▶ Identifying and exploiting drone firmware vulnerabilities
- ▶ Physical drone security and tamper-proofing
- ▶ Legal and ethical considerations of drone hacking
- ▶ Drone hacking case studies and examples
- ▶ Best practices for securing drones and protecting against cyberattacks
- ▶ Protecting drones from cyber threats using encryption and other technologies
- ▶ Drone countermeasures and defense strategies
- ▶ Integrating drone security into broader cybersecurity frameworks
- ▶ Future trends and developments in drone cybersecurity and hacking
- ▶ Drone operating systems and their security risks
- ▶ Analyzing drone flight data and telemetry
- ▶ Intercepting and decoding drone radio signals
- ▶ Authentication and authorization in drone systems
- ▶ Securing drone storage and data transfer
- ▶ Training drone pilots and operators in cybersecurity best practices
- ▶ Ensuring privacy and security in drone-based public services

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*Build your AI
Tactical Skills*

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Hardware:

1. Drone Kit (Drone and Controller)



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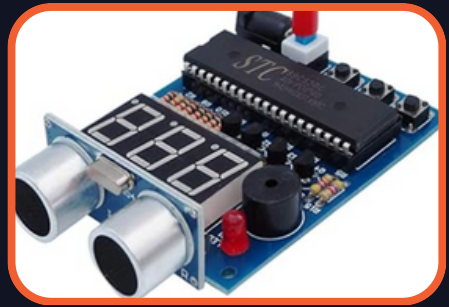
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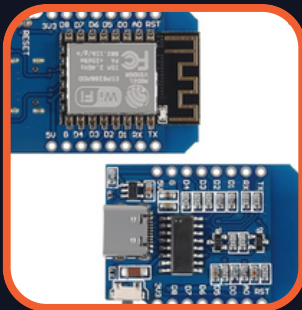


LEVEL 1

2. Ultrasonic Ranging



3. Type-C ESP8266 Wemos D1 mini



4. Wi-Fi USB Dongle Stick Adapter RT5370



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