Course Outline

Technical Introduction Drone Hacking

- Hardware Introduction
- Software Introduction
- Operational Courtesies / Polite Piloting
- Safety & Rules and Laws
- Case Study: Tello Learning
- LAB 01: Setting Up Tello and Software

Core UAV Technology

- Core Hardware and Electronics
- Sensors and Batteries
- RF Communication and Protocols
- Case Study: Hacking Drone RF
- LAB 02: Setting up and preparing EC-Council STORM OS for drone hacking

UAV Robotics as an ecosystem

- Autonomous vs. Autonomy
- Ground Stations: PC/Linux/OSx
- Flight records are often backed up to a server for later review
- Commercial UAS
- LAB 03: Programming Drones

Module 04: Wireless Recon

- Process Overview
- Tools to use
- Vulnerability Research
- LAB 04: Wireless Recon

Drone Hacking

- Famous Drone "hacks" to date
- Attack Vectors
- Firmware Mods
- Aircraft Radio Systems
- Case Study: Drone Exploitation
- LAB 05: Exploiting and Hijacking a Drone