



SOFWERX



HACKATHON

# SOFCON Instructables Hackathon

20-23 February 2018

Event Outcomes

SOFWERX hosted a quarterly event designed by and for Warfighters to collaboratively build, document, and test small scale projects. The objectives included:

- Engagement between SOF operators, engineers and hackers for experimentation with non-standard commercial technologies in order to develop use case concepts.
- Populate the SOFWERX common repository of instructional guides (Instructables) developed during the course of each attendee's project.

There was a total of 14 Warfighter participants, and 11 subject matter experts (SME's).

Warfighter project focus areas were Drones, Internet of Things (IoT), Software Defined Radios (SDR)/Communications, Cyber, Data Over RD,

The warfighter/SME pairs built Instructables for the following projects, among others:

Data of Radio Frequencies

- Utilize hand-held amateur radio and laptop to send and receive peer-to-peer message traffic between two stations, without internet or cellular connectivity.

Introduction to First Person View (FPV) drone flight

- This allows inexperienced individuals with no drone experience an introduction into controlling drone flight through the use of FPV.

Raspberry Pi 3 Automated Camera System

- This will allow you to create a motion activated camera system using a Raspberry Pi 3 with the Raspberry Pi Camera Module 2 and a PIR sensor. A remote PIR sensor activates the Pi camera to start record for 10 seconds (user configurable). The feed can be accessed via a networked Raspberry Pi.