Data needed from Drones?
Yes, and the data is rich.
Recovery of a drone.

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Drone Data Recovery
Deconstruction: Typical Drone
Deconstruction of DJI Mavic Air
Deconstruction: Typical Drone

Removable – Micro SDXC
- Stores photo and video files
- Monolith memory
- Very difficult to recover
Deconstruction of DJI Mavic Air

- Embedded eMMC memory
- Non removable
- Partitioned memory allowed single eMMC chip to act as both (embedded type) and (removable type)
Deconstruction: Typical Drone

Embedded – eMMC Card
- Stores metadata
- Drone operating system
- Monolith memory
- Very difficult to recover (failed controller)
Types of Data Obtained

- Video and photo files
Types of Metadata Obtained

- **GPS data**
- **Take off and landing times**
- **Metadata to cross-reference video and location information**
Real World Applications

- Events that occur once in a lifetime, such as weddings and graduations
- Professional entertainment industry footage that would be too expensive to reproduce
- Electronic evidence for use in a criminal or civil case
Example: Recovered Footage
Camera Card Data Recovery
Deconstruction

- Lexar 128GB SD was not being recognized
- Unknown controller
- Two chips found within the card
Types of Data Obtained

- Video files (very large files)
- The files became corrupt during the recovery process
- We spent 3 days repairing the damaged video data that was recovered
Real World Applications

- Events that occur once in a lifetime, such as weddings and graduations
- Professional entertainment industry footage that would be too expensive to reproduce
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Recovered Footage
DriveSavers
Data Recovery • eDiscovery • Digital Forensics

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