

February 6<sup>th</sup>, 2012

## LAARK Software Timeline

### Important Dates

- Journal paper and proof of flight – May 24<sup>th</sup>
- AUVSI Seafarer's UAS competition starts – June 13<sup>th</sup>
- Dead day – May 3<sup>rd</sup>

### Main Work Branches

- Pipeline
  - Cameras (February)
    - 10 MP Resolution
    - ~1% Error Rate
    - 1 FPS per camera
  - Distortion (Mid – March, 1 dedicated person)
    - “Targeted Distortion”
  - Autopilot Data (February)
    - Database Design
    - Delay between photo and data
    - Naming
    - Ser2net
  - Intelligence (End – March, Prelim benchmark February)
    - Good Features to track
    - Feature Detection (With benchmarks)
      - OCR
      - Shape
      - Orientation
      - Location
- Graphical User Interface (1 Week)
  - Define functionality and users
- 900Mhz Comm Pass-through (February)
  - Bandwidth test
  - Work with 0MQ and SSH
- Gimbal (February)
  - Get them working and benchmark
- Electrical Design (Mid-March)
  - Engine amp meter
  - Disconnect switch
  - Relay board
- Redo Computer Case

### Policy

- Everyone will submit a short progress report via email by 5PM Friday.