Mobile Camera Platform Project

**Work Breakdown Structure**

1. **Camera Module** - Jack
   1. Pan (stepper)
   2. Tilt (servo)
   3. Home (center point)
2. **Comms Manager**
   1. Host side - Mark
      1. Format command to send
      2. Send command to platform
      3. Decode received commands
      4. Timeouts/Error conditions
   2. Platform side - Mark
      1. Decode received commands
      2. Echo back command to host
      3. Heartbeat monitor
3. **DC Motor Speed/Direction Controller** - Jack
   1. Wide angle turn
   2. Pivot turn
   3. Spin turn
   4. Distance control
   5. Speed control
   6. Platform control law
4. **HMI (joystick)** - Alan
   1. Translate various joystick motions/key presses into commands
      1. Pan and tilt control
      2. Speed and direction control
      3. Take a picture
      4. Wait for audio
      5. Detailed diagnostics
      6. Initialize
      7. Abort!
5. **DSP Audio/Video**
   1. Tone detection - Mark
   2. Image processing – Alan

Questions

How will the image processing work?

How to interface with the webcam?

What are the specifics on the demo?