BUUAV ACT

**Myo Armband Updated: 10/2/15**

Roadmap:

1. Reading existing materials
   1. [General EMG information](https://www.google.com/#q=emg+signal)
   2. [Myo Forums](https://developer.thalmic.com/forums/) (read through code by other people)
2. Control Parrot Rolling Spider / AR with Myo custom code
   1. MATLAB to read data coming in from Myo
      1. Develop matlab function with following control parameters for Myo data capture by modifying existing C++/Python/Mex code
         * 1. Fs
           2. Time
           3. Data
   2. Python/Node.js to send signals to control Parrot
3. Basic Signal Processing
   1. MATLAB - Live signal with GUI as time series (and frequency)
      1. Signal Processing for EMG
      2. Signal Processing for IMU
   2. Gesture algorithm
      1. EMG
         1. Fist Clench
         2. Normal (Stretched out, palms down)
         3. Wrist (U D L R)
      2. IMU
         1. Arm rolling
         2. Arm thrust (U D L R)
4. Simple machine learning to supplement signal processing