You will be provided two EMG sensors and a single servo motor – the goal of this assignment will be to control the servo motor using dual-site EMG. To do so, you will need to connect the teensy and custom PCB with the Bluetooth module and the EMG sensors and servo motor.

Then, please...

- 1) Write code to filter the EMG from the two sensors you have been provided. Consider implementing a notch filter, low-pass or band-pass filter, and then either a windowing or another smoothing function to ensure a smooth EMG signal from each of the two sensors.
- 2) Implement code that identifies the stronger of the two signals to use for determining desired direction of motion. Additionally, a threshold may be necessary to ensure that only voluntary contractions will trigger motion.
- 3) Control the robot to move in an open loop, velocity-controlled manner, based on the processed signals in 2. To demonstrate the motion of the motor add a "flag" or printed link to demonstrate the motion

Report results, please share a video of the motion of the motor being controlled by EMG, and share code