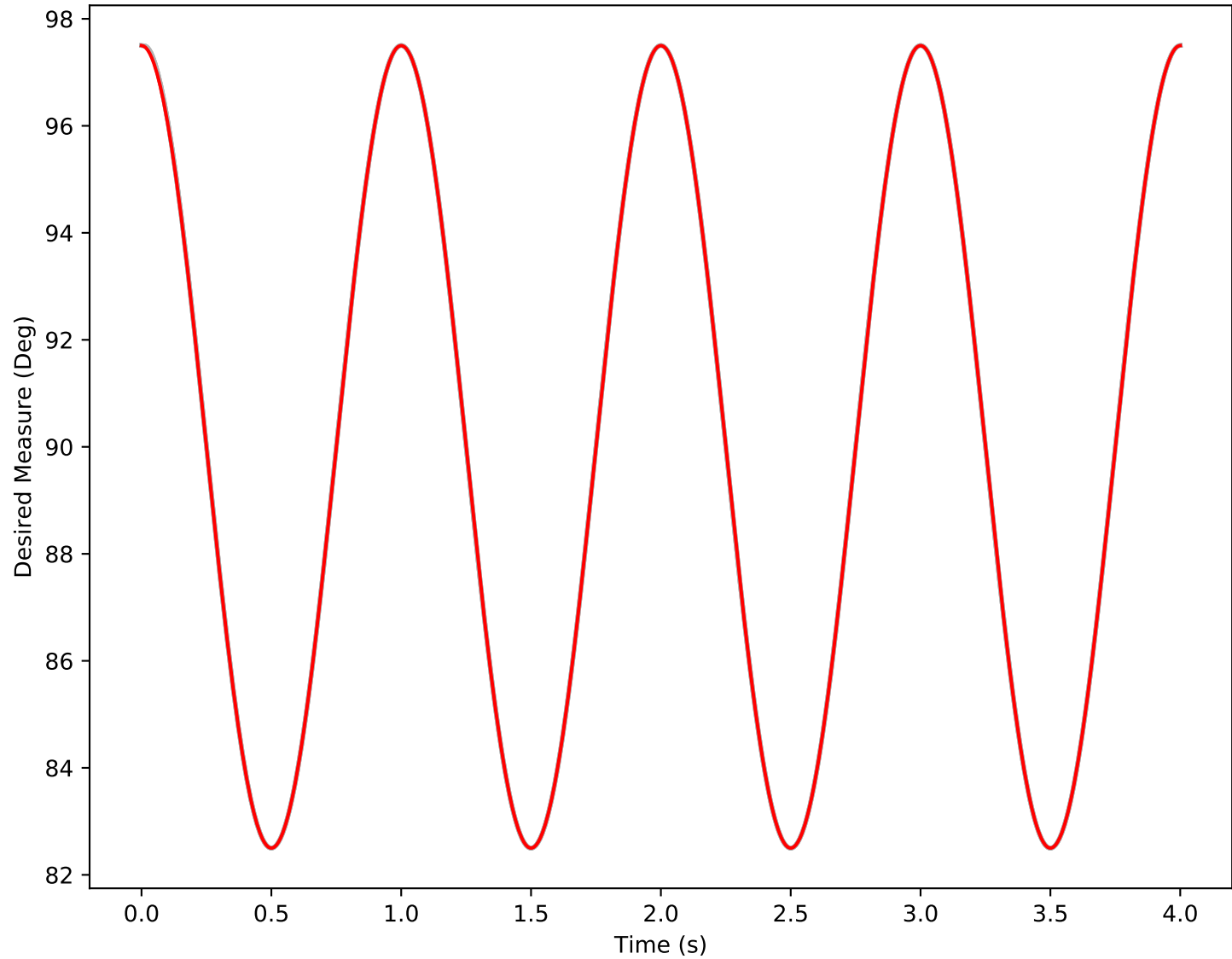
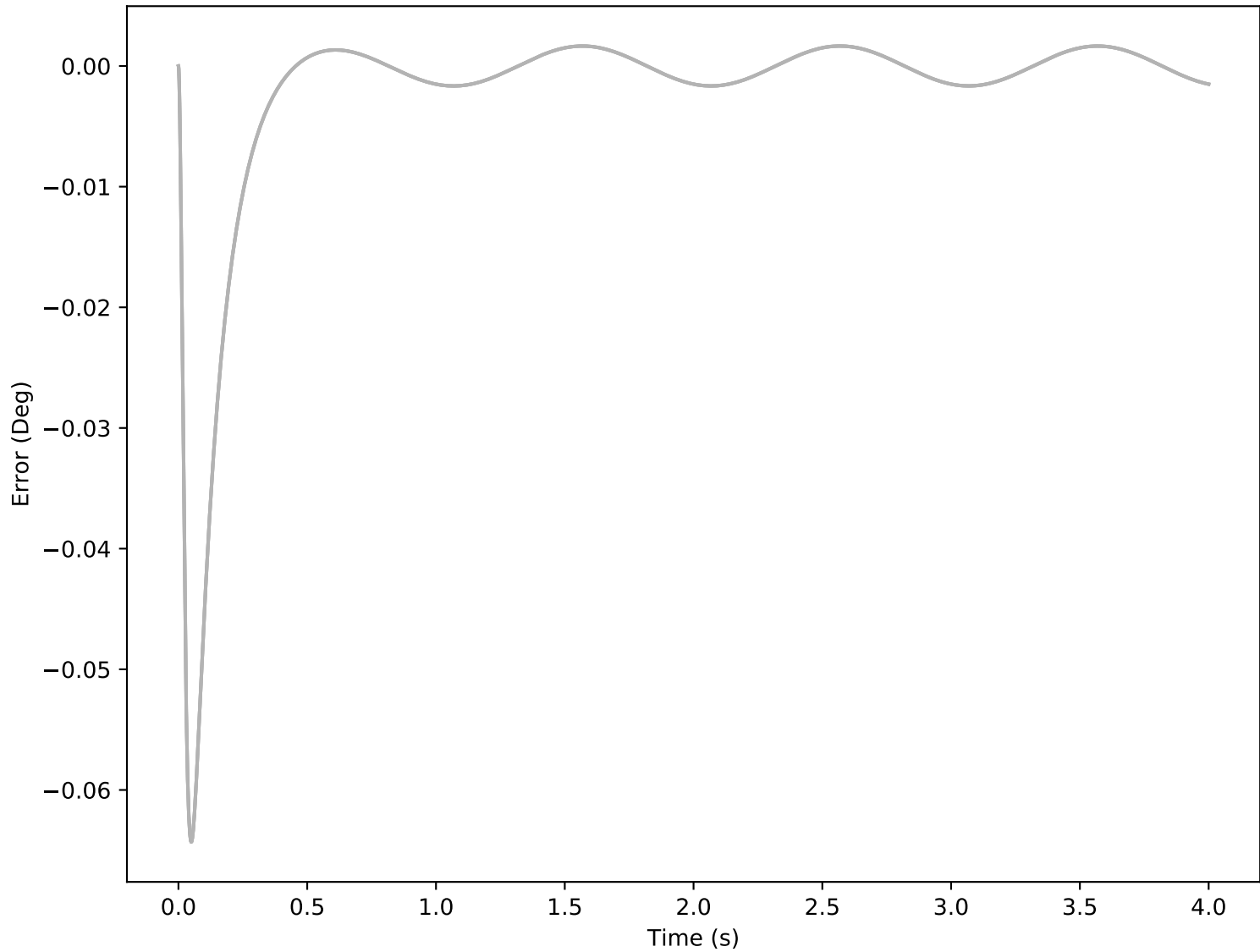


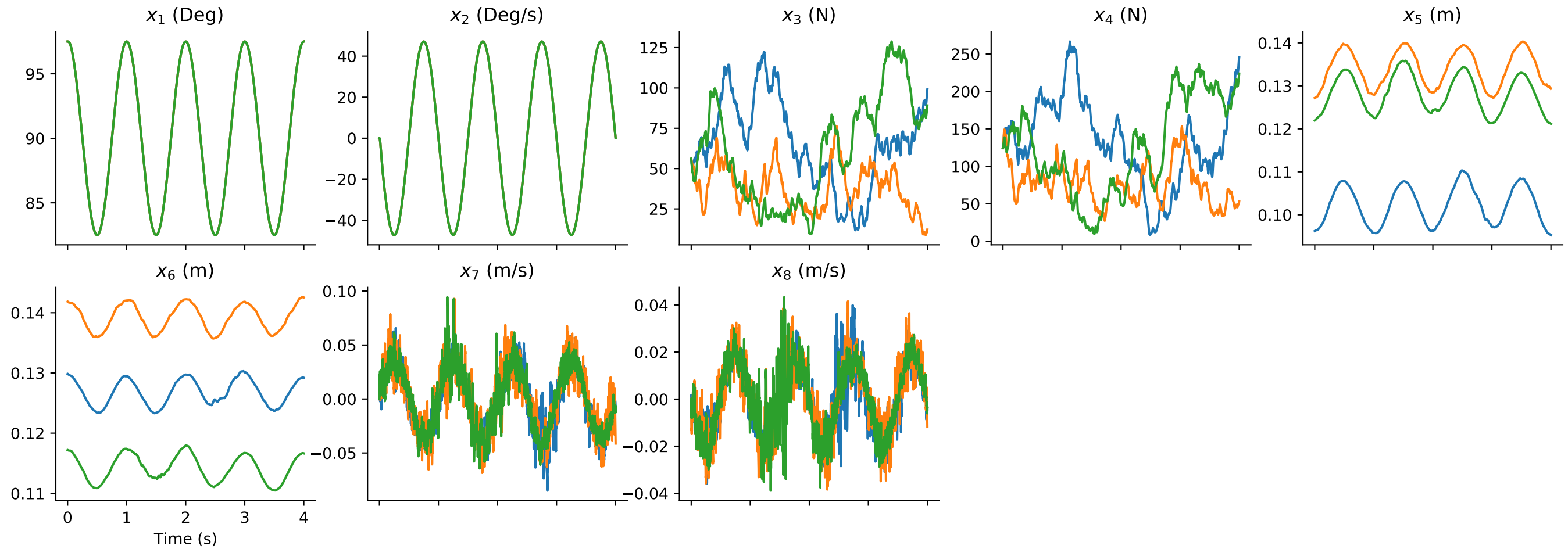
Underdetermined Forced-Pendulum Example



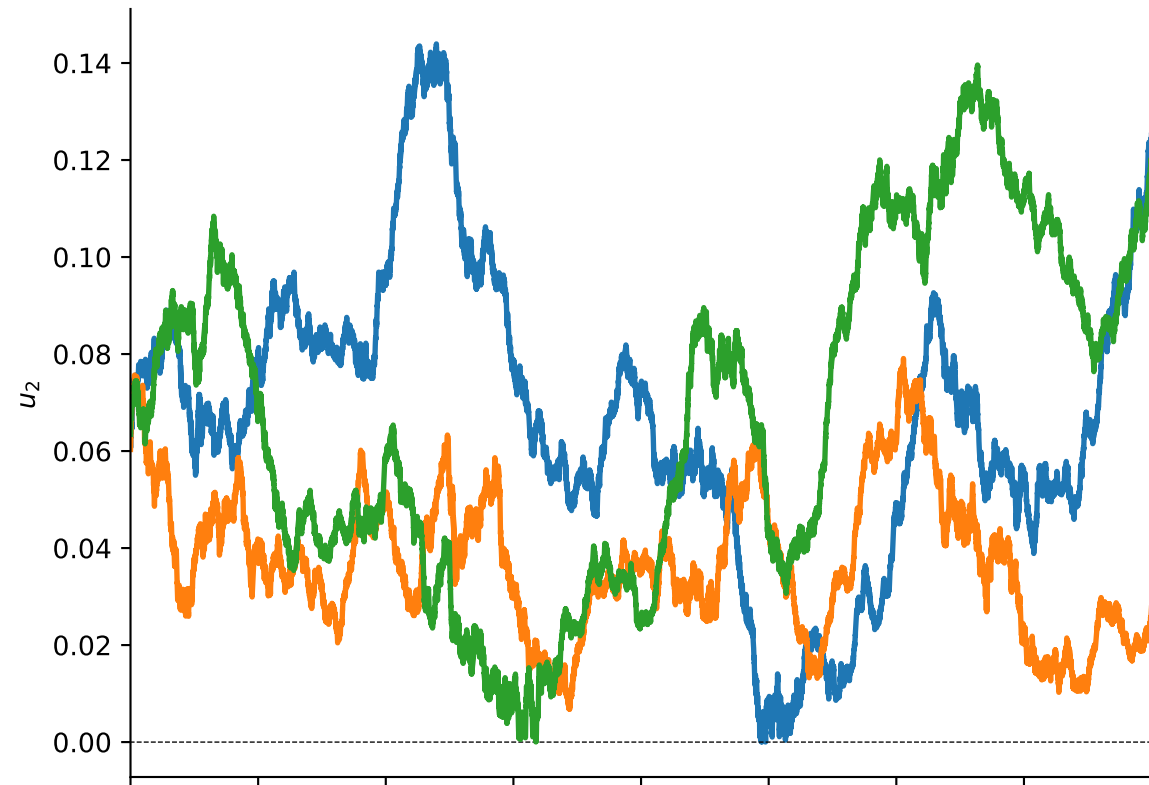
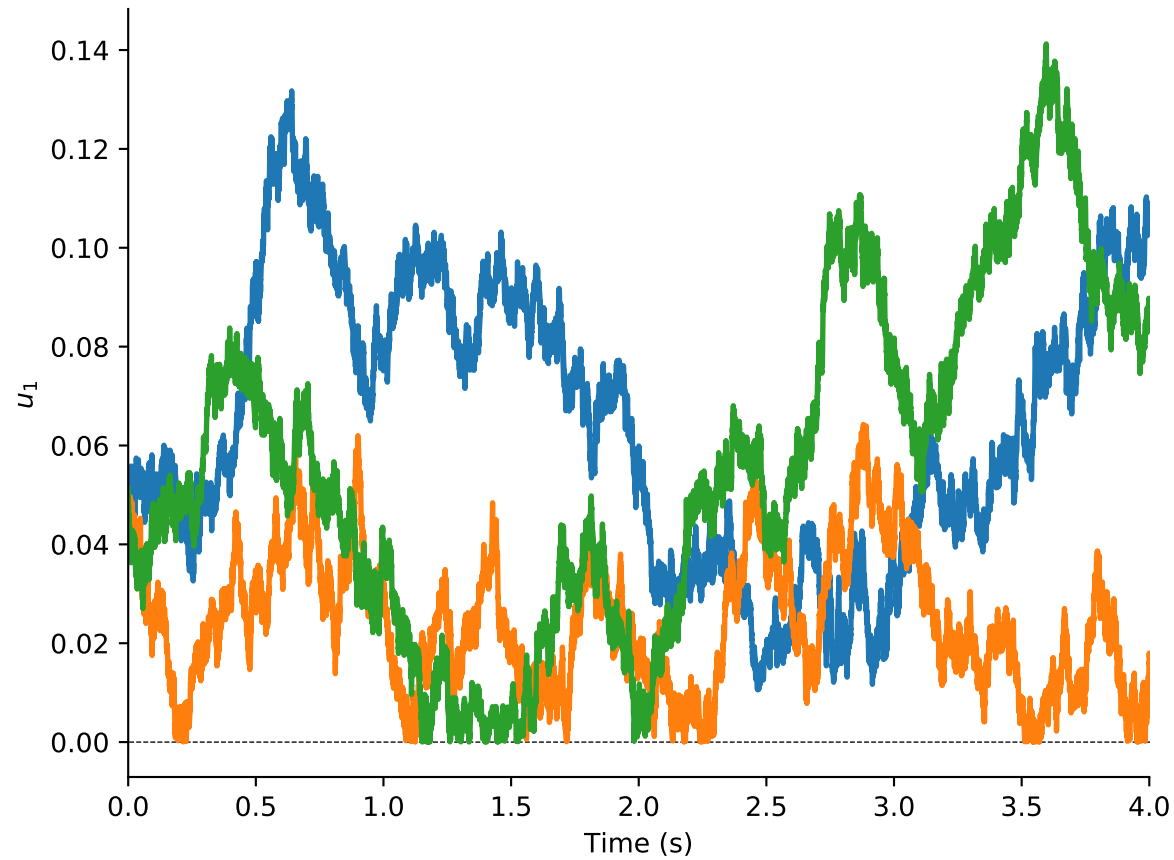
Error vs. Time



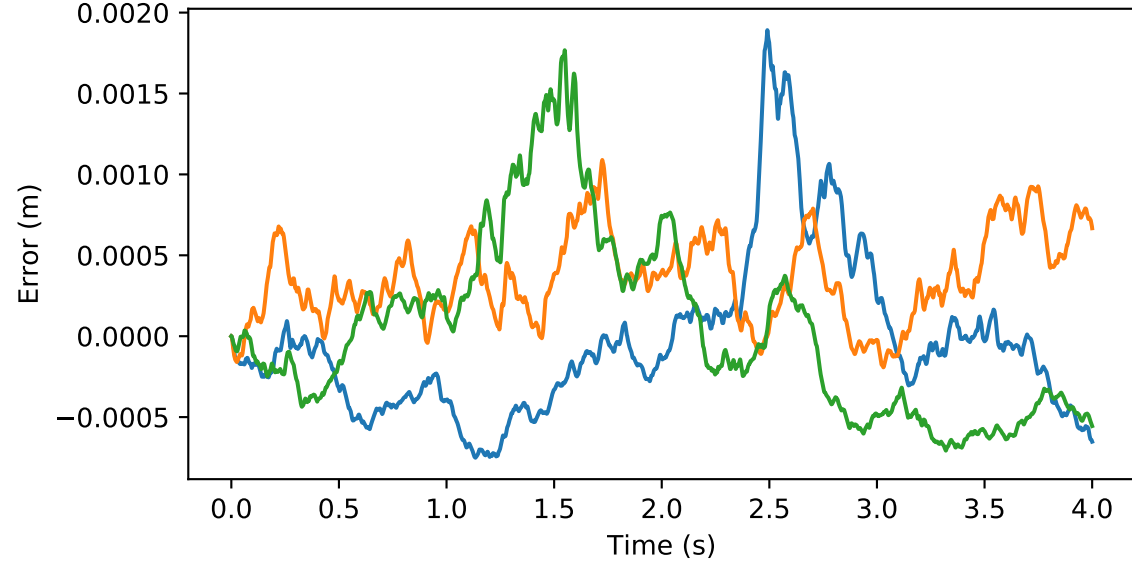
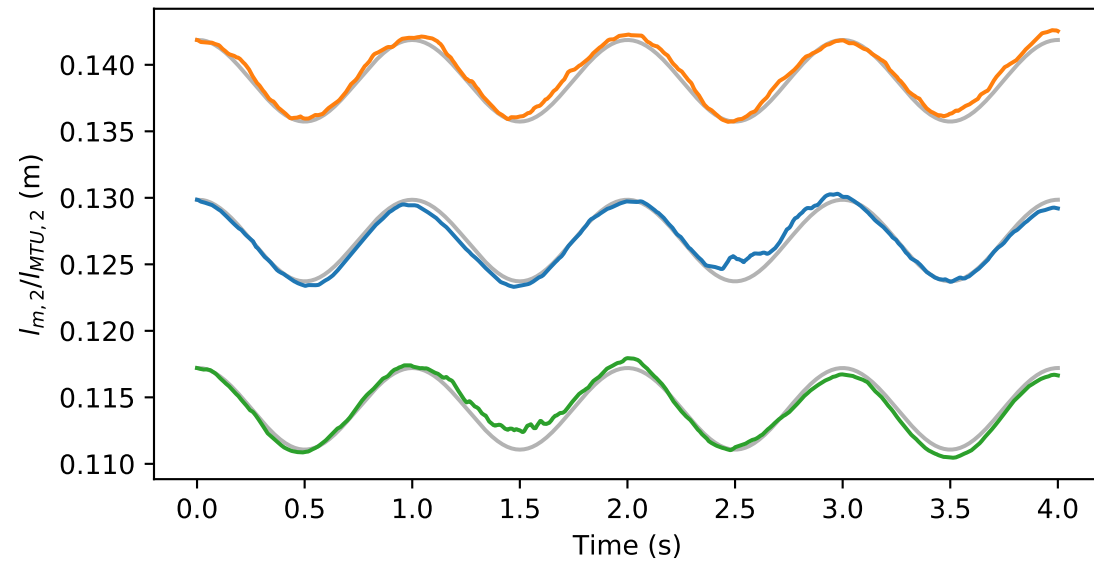
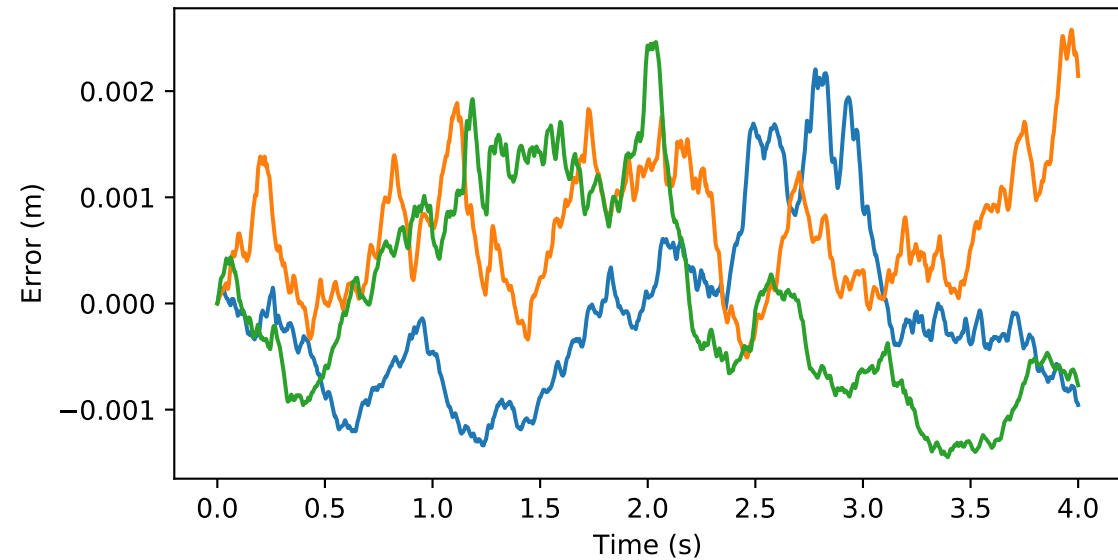
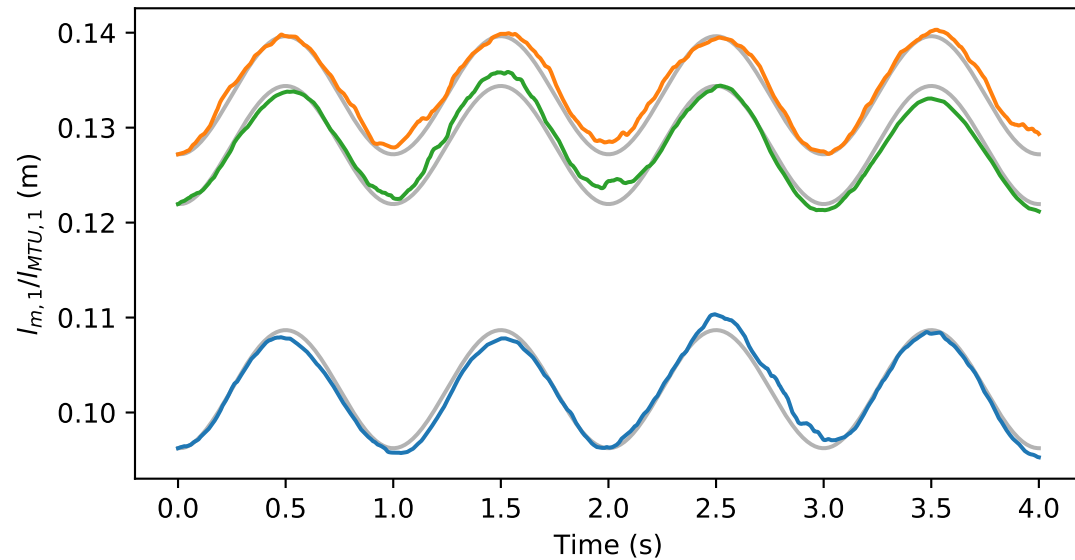
Muscle Activations Driven



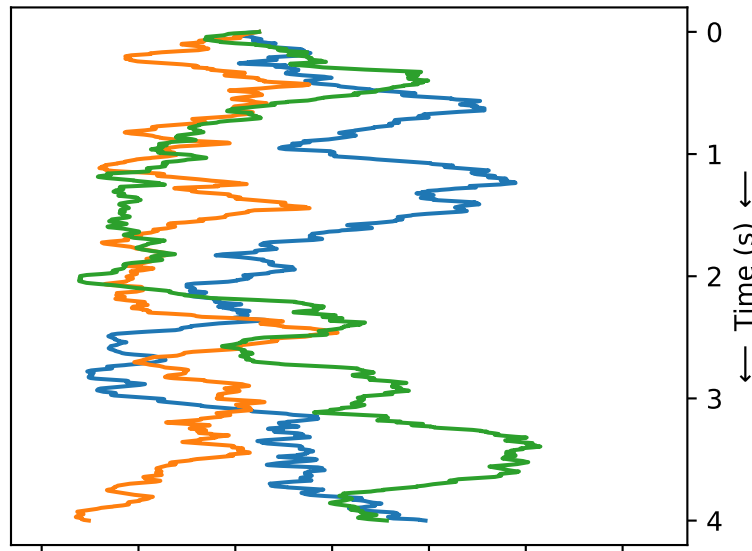
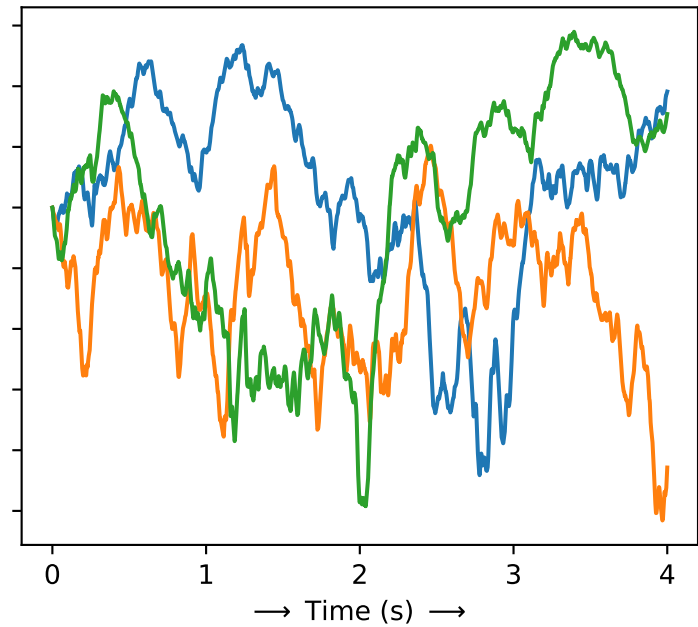
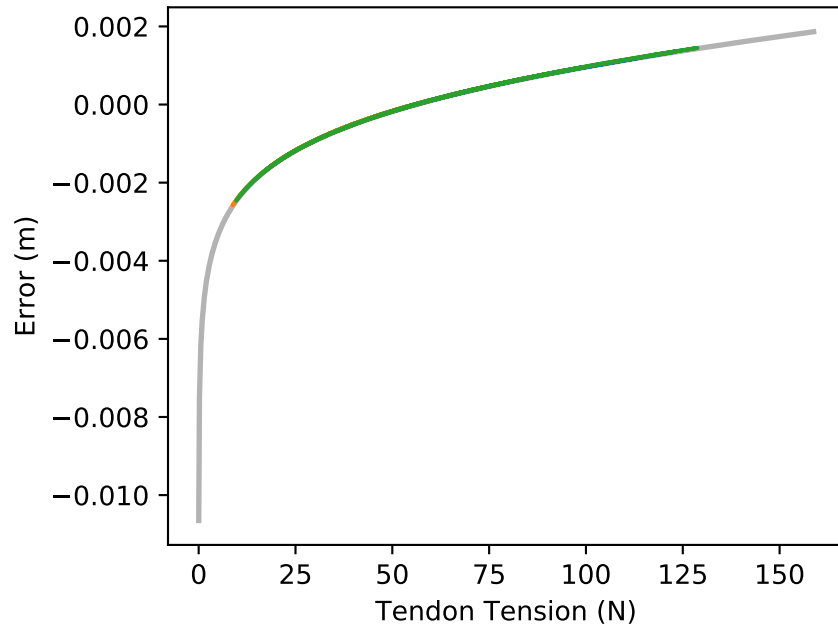
Muscle Activations vs. Time



Muscle vs. Musculotendon Lengths
Muscle Activation Driven



Error from MTU Approx vs. Tendon Tension Muscle 1

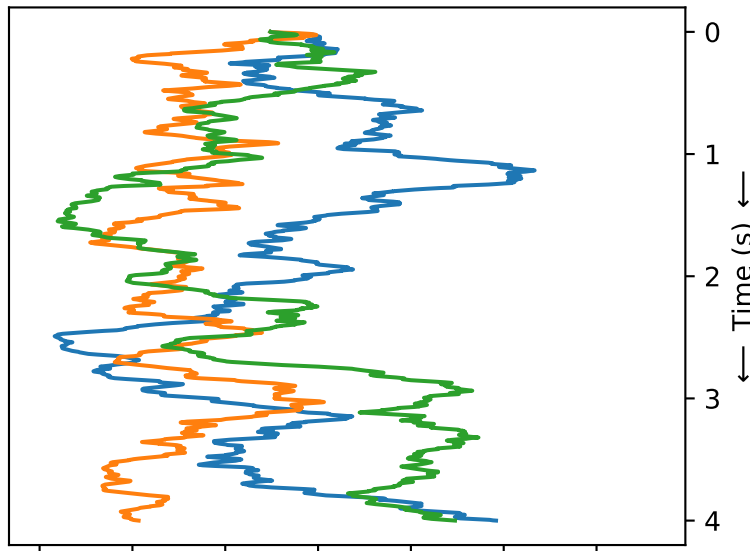
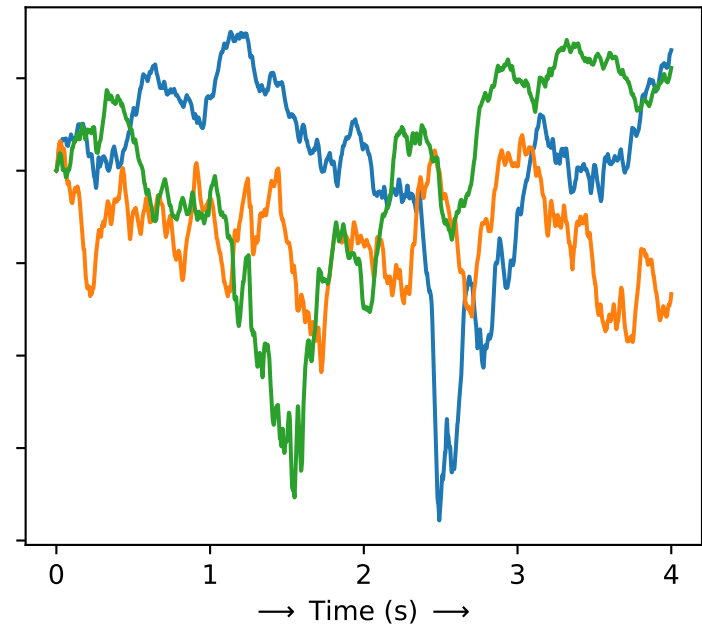
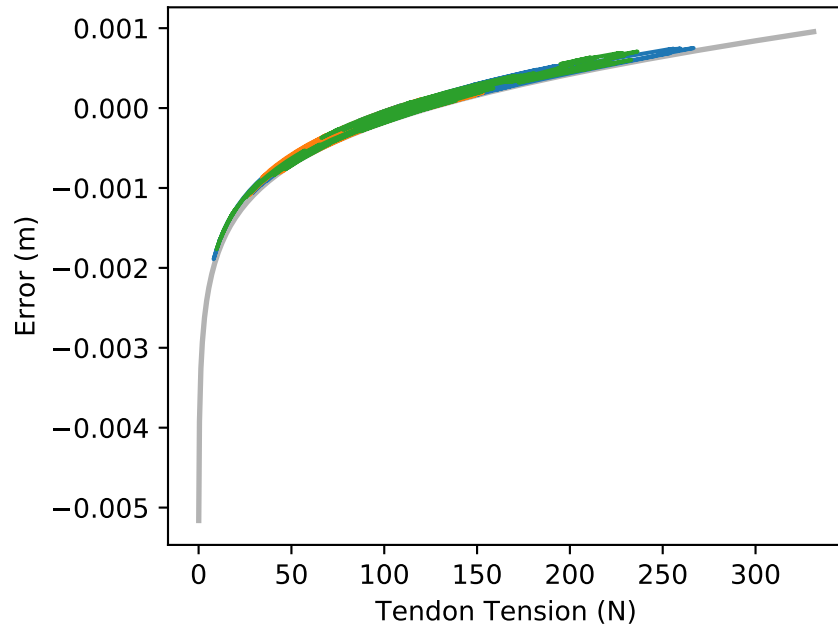


$$\text{error} = \frac{\tau}{\alpha} \cdot \ln\left(\frac{e^{T_1(t)/\tau} - 1}{e^{T_1(0)/\tau} - 1}\right)$$

$$\text{where, } \tau = F_{MAX,1} \cdot c^T \cdot k^T$$

$$\text{and } \alpha = \frac{F_{MAX,1} \cdot c^T}{l_{T_{o,1}}}$$

Error from MTU Approx vs. Tendon Tension Muscle 2



$$\text{error} = \frac{\tau}{\alpha} \cdot \ln\left(\frac{e^{T_2(t)/\tau} - 1}{e^{T_2(0)/\tau} - 1}\right)$$

$$\text{where, } \tau = F_{MAX,2} \cdot c^T \cdot k^T$$

$$\text{and } \alpha = \frac{F_{MAX,2} \cdot c^T}{l_{T_{0,2}}}$$