MAE 171b / Spring 2017

Motor Kit Lab Schedule

- Week 3: System setup and PID tuning for inverted pendulum mode
- Week 4: Modeling of the plants inertia mode (Type 1) and pendulum mode (Type 0)
- Week 5: Continuous-time indirect design and sampling effects for inertia mode
- Week 6: Discrete-time direct design PD controller for inertia mode
- Week 7: Feedforward and notch filter design for pendulum mode
- Week 8: State observer design for inverted pendulum mode
- Week 9: State observer feedback for inverted pendulum mode
- Week 10: Student demonstration

Week 11: Final exam