

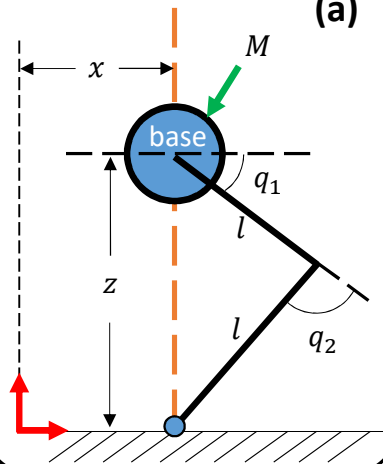
Low

System Complexity

High

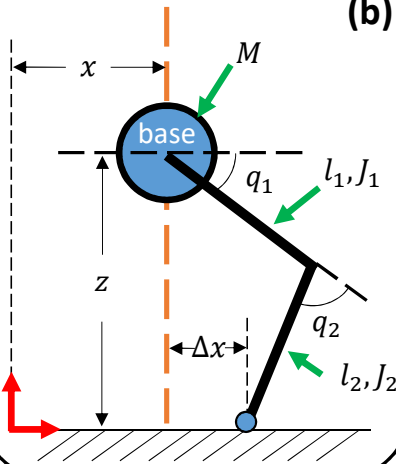
Knee Extensor Model

(a)



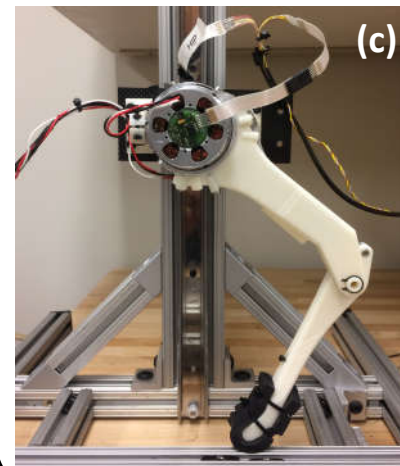
Detailed Leg Model

(b)



Hardware Platform

(c)



Knee Extensor Model

- Mass lumped at base
- No inertia
- No horizontal off-set

Detailed Leg Model

- With inertia
- Ground impact
- Horizontal off-set

Hardware Platform

- Vertical jump
- Horizontal jump

Admissible Operating
Region (AOR)

Actuator Selection &
Linkage Design

Hardware Integration