



MECA 482

Control System Design

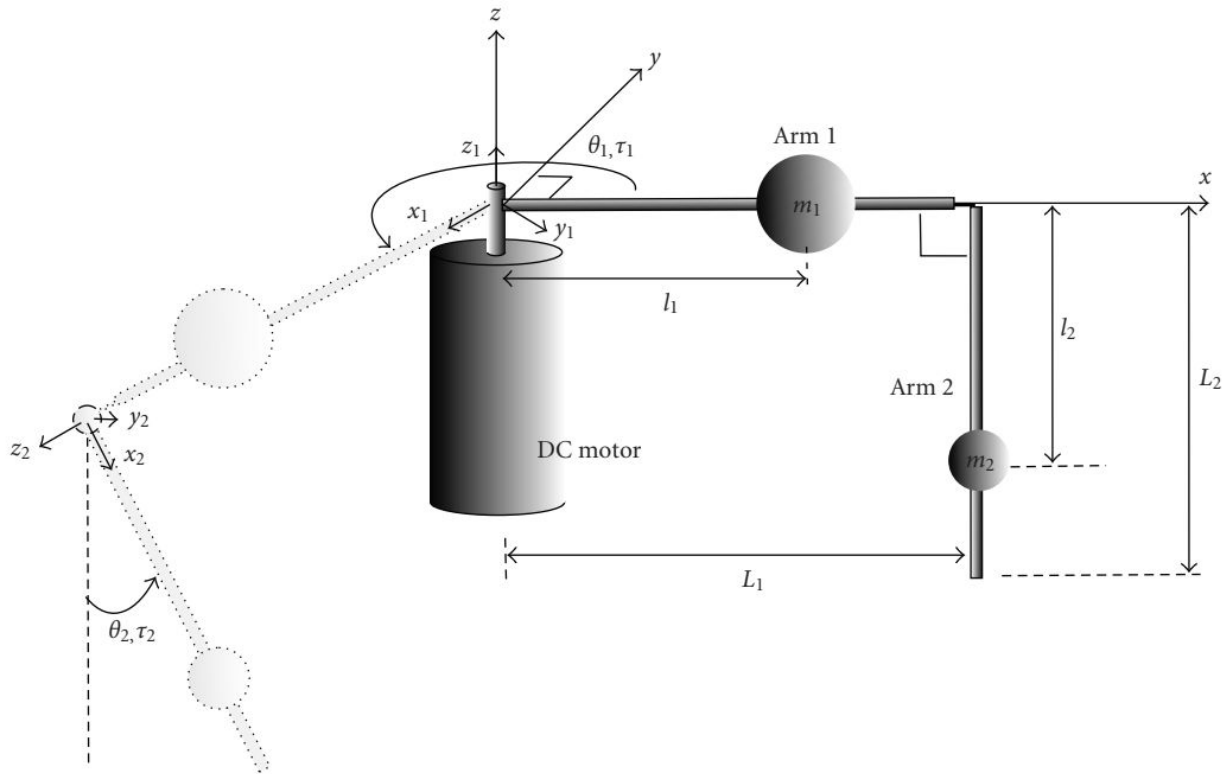
Furuta Pendulum-Group 1

# What is a furuta pendulum?

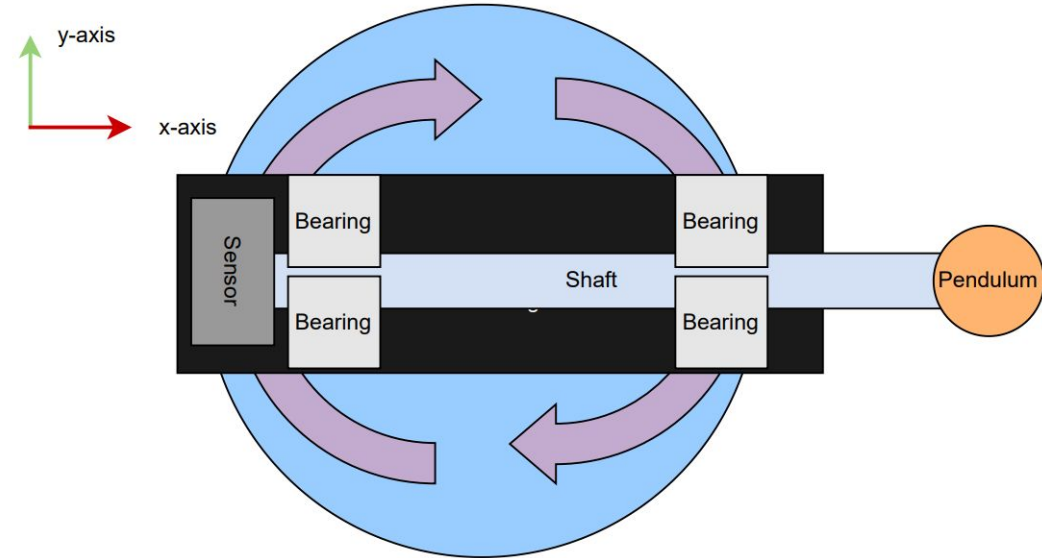
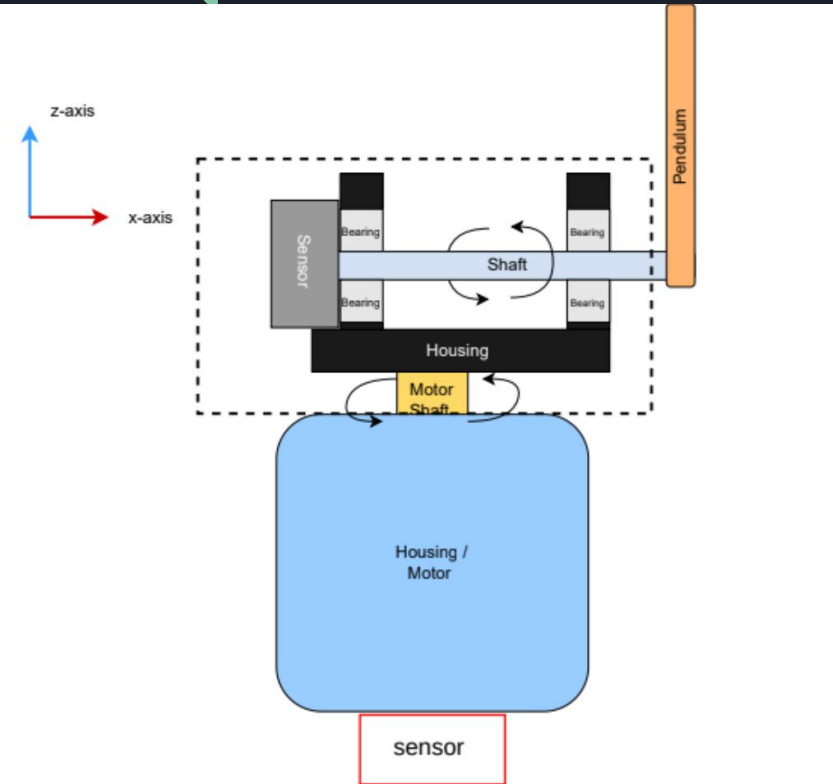
- Driven arm attached to a pendulum
- Motor rotates the driven arm to keep the pendulum upright
- Controller tells the motor what it needs to do in order to keep the pendulum upright
- Used to demonstrate the application of nonlinear control laws



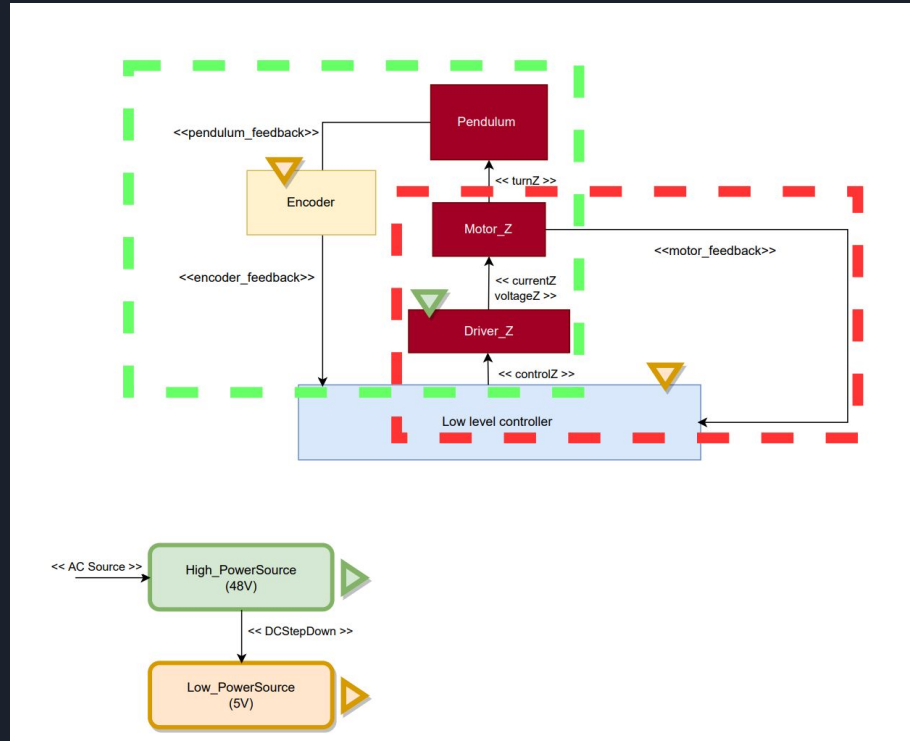
# System Model



# Operational/Functional Viewpoint of System



# Logical Viewpoint



# Coppeliasim Model Simulation

