Capacitor: Integration
Setup Guide

In order to build the winch, the capacitor, and the lego car, the winch built needs to be different than the instructions that came with the lego kit. Follow these instructions to build the winch for the lab and connect it to the capacitor.

Step one:
Use the pieces at the left to build the platform at the left

Step two:
Attach the pieces to the right to the platform you just built.

Step three:
Use the pieces above to build the piece above (middle) and attach it to the platform above (to the right)

Step four:
Use the pieces below to attach the shaft to the worm gear.

View a:
View b:
Step five: Use the pieces to the left to build the two small walls to the right.

Attach the two walls to the platform:

Step six:
Use the pieces below to attach a gear and shaft to the worm gear from step two.

Step seven:
Connect the winch to the shaft running into the worm gear from step two.

This is the entire winch system. To attach it to the capacitor, see the next page.
Capacitor: Attaching winch to capacitor

Step one:
The capacitor needs to be built up just a bit to match the height of the winch. Use the gray platform and the pieces below and build the platform, then attach the capacitor on top of the platform.

Step two:
Here are two views after the winch and capacitor are attached. The winch should hang off the platform so when a weight is attached it can freely fall.