Virtual Prototyping and Physical Validation of an Inverted Pendulum
What we want to achieve

- Virtual model of the pendulum and its controller in Acumen.
- Physical model of inverted pendulum robot
Critical step toward that goal

➢ Mathematical model of the pendulum
➢ Building prototypes
➢ Simulation in Acumen
➢ Develop a controller in Acumen
➢ Communication between Acumen and the real world
Time plan

- Week 40  10/3  First prototype
- Week 42  10/17 Second prototype
- Week 44  10/27 Half-time seminar
- Week 44  10/31 Third prototype
- Week 46  11/14 Fourth prototype
- Week 48  11/28 Fifth prototype
- Week 51  12/19 Final seminar