

# ECGR4161/5196

## Lecture 1

Went over Syllabus

Viewed the following videos:

[http://www.youtube.com/watch?v=Ja3ND8Pk\\_0M](http://www.youtube.com/watch?v=Ja3ND8Pk_0M)

<http://www.youtube.com/watch?v=znPM2Ssb920>

<http://www.youtube.com/watch?v=lvtdHCYmTPQ>

# Autonomy?

Operate on own

Self guiding

for long (extended)

Mobility

Interact with environment

Safety

pre-programmed  
vs. direct  
Control

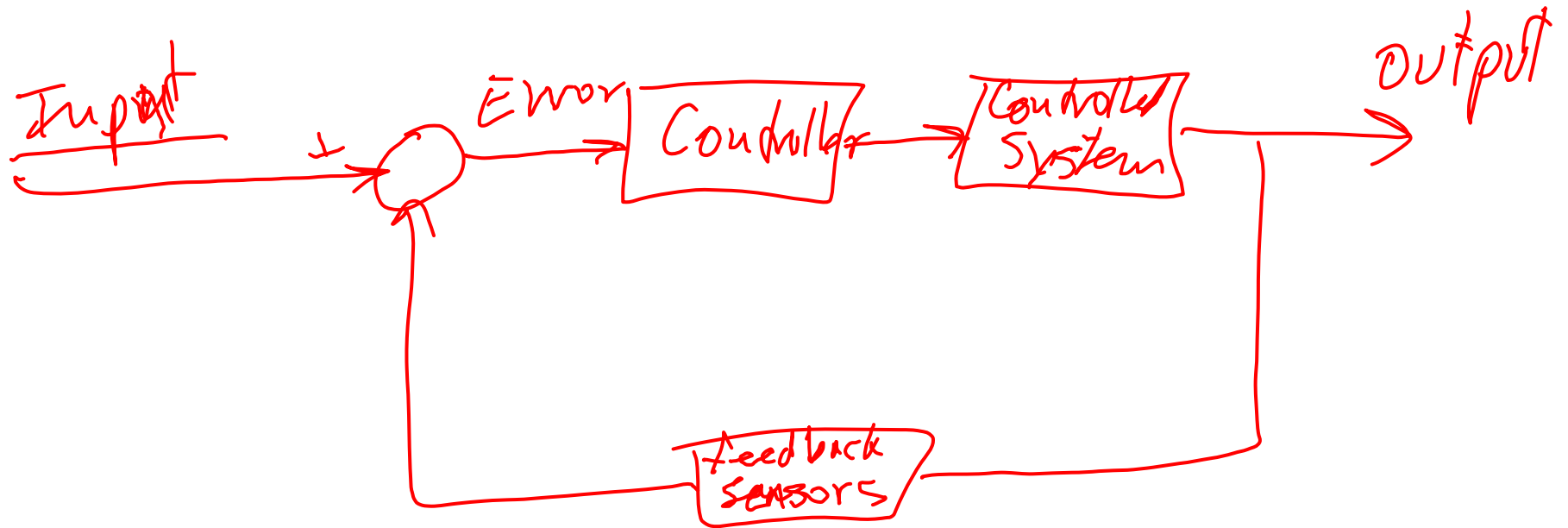
ASIMOV - 3 laws - ~~harm/safety~~

1. Never harm a human

2. Obey humans (unless violates 3)

3. Do not harm another robot (unless violates 2 & 3)

4. OK to harm a human if they mean to harm humans



Speed  $m/nr.$

wheel radius  
 $\approx 1\text{ cm}$   
 time

