

Lego Engineering

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Announcements

- New kit – Arduino compatible board
- Demonstration of Nao robot at 4pm in LG-32 (Learning Centre)

- We have now covered the basics of sensing.
- Now we can get information from the outside world, we're going to look at how we can use that information.
- Before we can do this we need to have a physical presence in the world.
- This lecture looks at some of the basics of engineering with the Lego kit.

The Chassis

- The chassis is what we're going to hang everything off.
- It should be light, to reduce battery drain.
- It should be strong, to resist the stress living in this imperfect world.
- We can achieve these goals by using bracing, which requires we understand the geometry of Lego bricks.

The Drive Chain

- The drive chain connects your motors to your wheels.
- Next to the Intellibrain, the drive chain will be the main constraint on the shape of your robot.
- Determines the tradeoff between speed and power.