ABSTRACT

The goal of project is to implement gyro-stalilized remote control robot-segway with a robotic hand.

Parts used:
1) 2x motors for movement;
2) 1x motor to open/close hand;
3) a mobile phone to provide gyro sensor data over BT or USB-OTG;
4) a remote control device(android phone or laptop);
5) the sensor of pressure(to capture object when touching);
6) an empty beer bottle;

Language:
Java, LeJOS

Schedule:
0) Assemble the initial robot model from lego parts. Install the OS, try to compile an example code (Because of the broken control unit this isn't done yet);
1) Make sending gyrosensor's data over BT/USB working;
2) Teach the robot to balance;
3) Implement a remote control;
4) Add robo hand and try to teach the robot to balance with an object and without it.