

## Robot PID Simulators

Written by Lior

Monday, 31 January 2011 14:45 - Last Updated Wednesday, 08 May 2013 13:58

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This Page contains 2 sets of pid simulators. One of for controlling a robot to follow a wall at a pre determined distance. The other is to control the speed of a motor. I created these simulators so I can learn about PID algorithms. All of the information was derived from

[Alex Brown](#)

paper about PID (

[Paper](#)

) which was very insightful. The control code for the pid robot simulation was also derived from the qbasic source found in the pid paper. Any improvements to the simulator are greatly appreciated. Just email me the modifications and I will put it on the website.

The robot wall following simulator: This simulator demonstrate the ability of a robot to follow a wall at a pre determined distance using PID routines.

### **NEW VERSION.**

Resized the windows to fit on 800X600 resolution and up.

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Source: [robot\\_sim.zip](#)

Binary: [robotpid.exe](#)

The next simulator simulates a motor speed control it is not complete by any means, but you can download it so and maybe see progress.

Source: [SpeedControl.Zip](#)

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Binary: [SpeedControl.exe](#)