



הפקולטה למדעי ההנדסה- המחלקה להנדסת תעשייה וניהול
אוטומציה וייצור ממוחשב 364-1-3321
אוניברסיטת בן גוריון בנגב

ReadMe-Arduino PID

Our system presents an inverted pendulum using Arduino Uno and PID library.

Description



To use the system all you need to do is to connect the Arduino to your computer. To reset the system, you should push the red Button when holding the pendulum on 0 degree. After that you can insert the goal degree between -15 to 15 degree and the program will start to fix the error degree until reaching the goal degree.

Getting Started

Dependencies: Arduino IDE include the PID library and the encoder package via Sketch -> include library-> zip :<https://github.com/PaulStoffregen/Encoder>

Installing: For further information, use the link attach below-
<https://docs.arduino.cc/software/ide-v2/tutorials/getting-started/ide-v2-downloading-and-installing>

Executing program

- Open the Arduino IDE Program -> click "file" -> click "open" -> choose the file from the relevant folder on your computer -> connect the Arduino Uno device by USB -> click "verify" button  -> click "Upload" button 

Help

- **Please note, do not execute the program before you connect the tongs to the table!**

Authors

Daniel Mani- @manidani4149, Daniel Magnezi - @danielmagnezi, Nitay Man- @NitayMan, Ofri Seroussi- @ofris