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The ball and beam system consists of a long beam which can be tilted by a servo or electric motor together with a

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Beam rolling

back and forth

on top of the

beam. It is a

popular textbook

example in

control theory .

The significance

of the ball and

beam system is

that it is a

simple system

which is open-

loop unstable .



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unstable system  
is the ball-on-  
plate system, a  
two-dimensional

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ball-and-beam  
problem Among  
the interesting  
challenges of  
such a system is  
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In subsystem  
Beam, add a  
Rigid Transform  
block and name  
the new block  
"Transform Beam  
End Ball". In  
group Rotation,

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"Aligned Axes".

In group

Rotation, under

Pair 1, set

Follower to "+Z"

and set Base to

"+Y". In group

Rotation, under

Pair 2, set

Follower to "+Y"

and set Base to

"+X".

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Physical setup.

A ball is placed

on a beam, see

figure below,

where it is

allowed to roll

with 1 degree of

freedom along

the length of



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A lever arm is attached to the beam at one end and a servo gear at the other. As the servo gear turns by an angle  $\theta$ , the lever changes the angle of the beam by  $\alpha$ . When the angle is changed from the

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horizontal  
position,  
gravity causes  
the ball to roll  
along the beam.

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The ball and beam system is a popular textbook example in control theory and nonlinear dynamics. Find this and other hardware projects on Hackster.io.

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*Ball and Beam -  
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This was a school project, the assignment was to construct a ball and beam control system. A ping pong ball sits on top of the beam rolling forwards and backwards according to the



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beam. The pitch  
is controlled by

a servo that is  
connected to an

Arduino. The

position of the  
ball is measured

by a distance

sensor mounted

at the end of

the beam. An PID

controller is

used to control

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the position of  
the ball on the  
beam.

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A ball is placed

on a beam, see

figure below,

where it is

allowed to roll

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Beam 1 degree of freedom along the length of the beam. A

lever arm is attached to the beam at one end and a servo gear at the other. As the servo gear turns by an angle  $\theta$ , the lever changes the angle of the

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consists of a

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Beam which can be tilted by a servo or electric motor together with a ball rolling back and forth on top of the beam. It is a popular textbook example in control theory.. The significance of the ball and

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that it is a  
simple system  
which is open-  
loop

unstable. Even if  
the beam is  
restricted to be  
very nearly  
horizontal,  
without active  
...

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