

*Heaven's light is our guide*

# Rajshahi University of Engineering & Technology

**MTE 1101**

## **Mechatronic Systems**

Prepared By:

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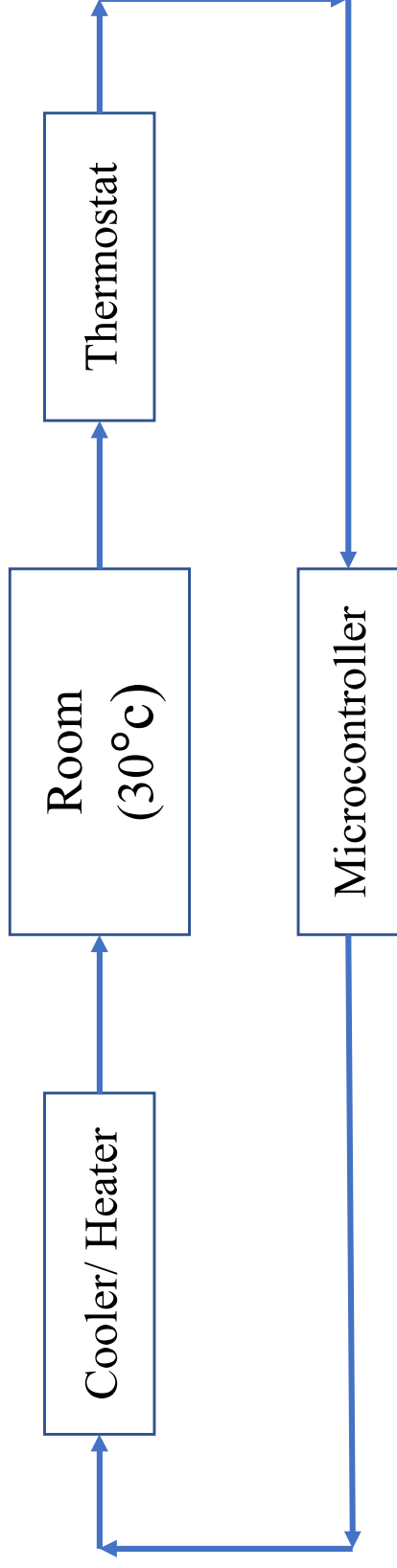
# Outlines

- Temperature Control System
- Human Comfort Zone
- Room Humidity Control System
- Human Body Humidity Control System
- Maglev Control System

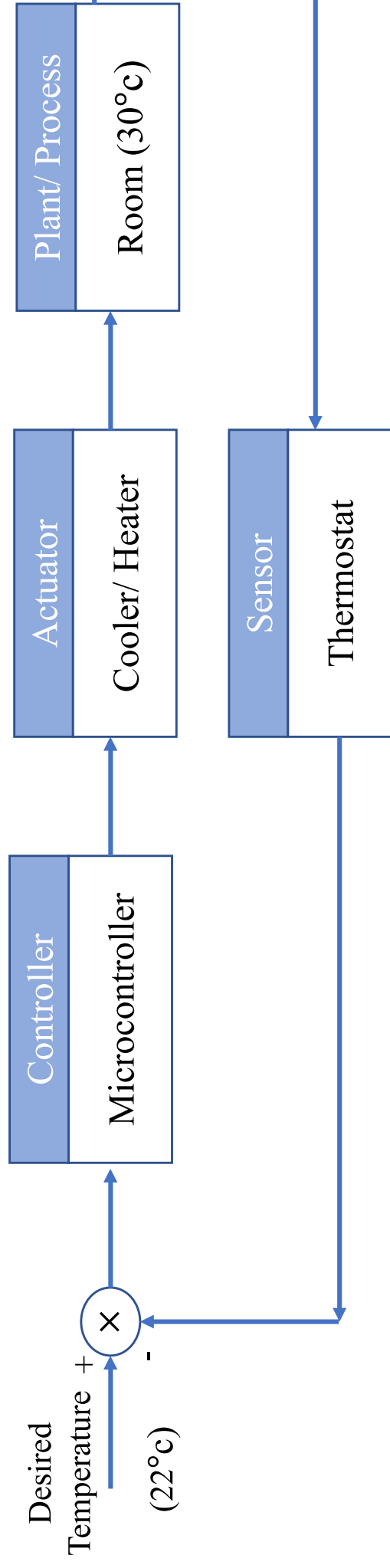
References: Slide, Internet, Recommended Books (Rajput/Bolton: Chapter 1)

# Temperature Control System

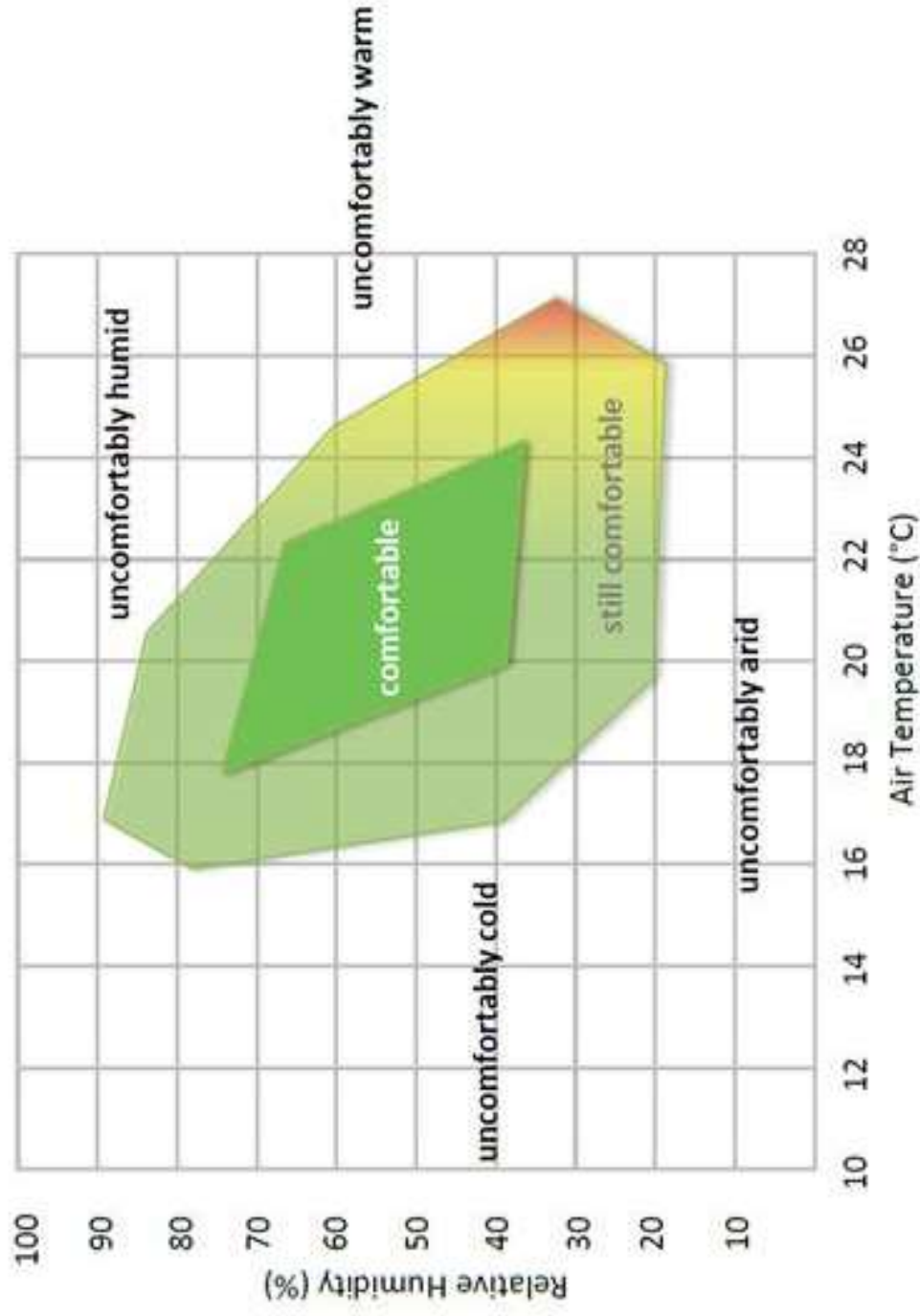
## Physical system:



## Block Diagram Representation:

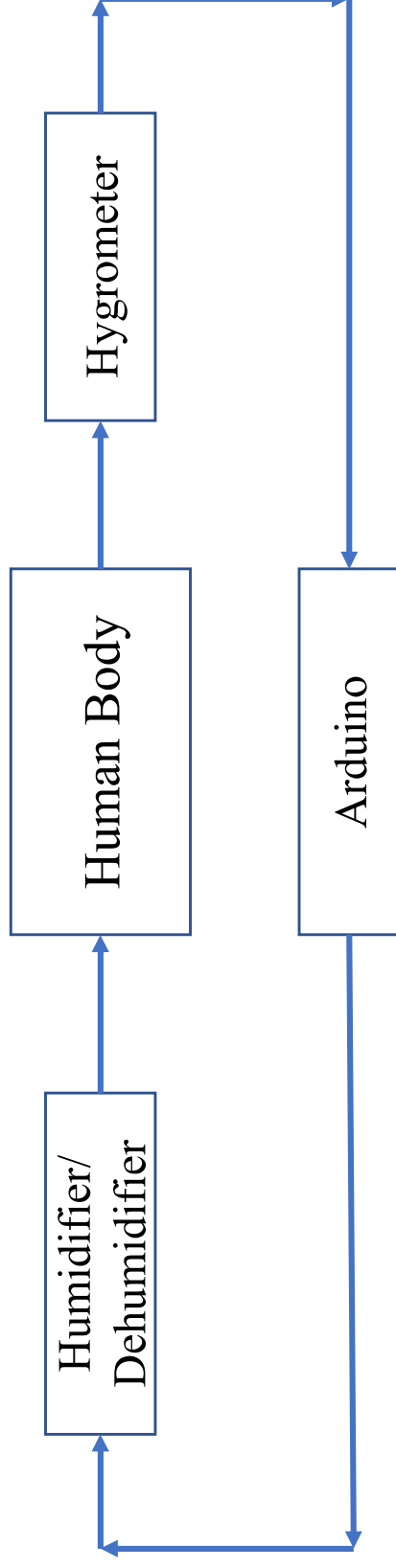


# Human Comfort Zone

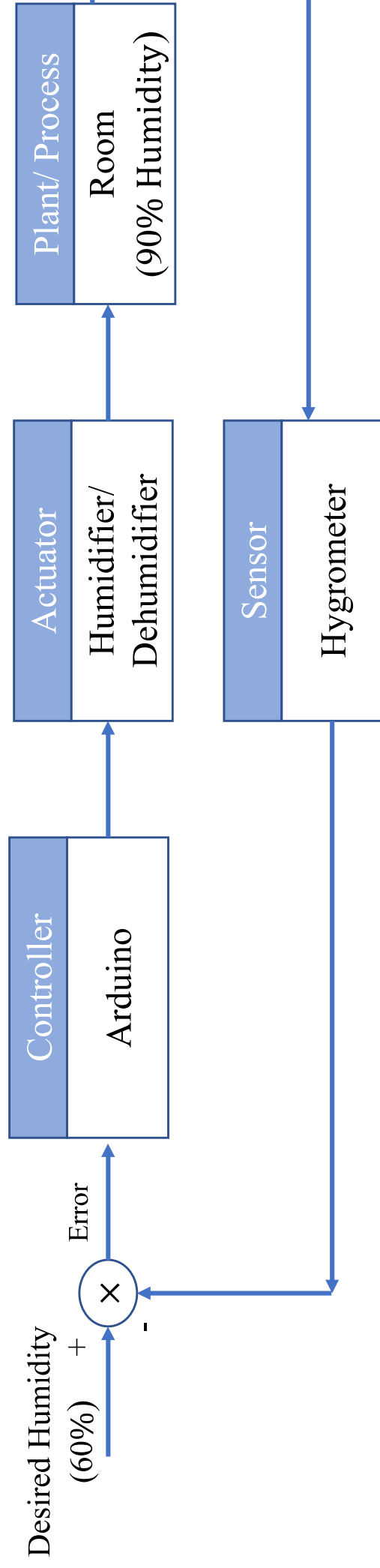


# Room Humidity Control System

## Physical system:

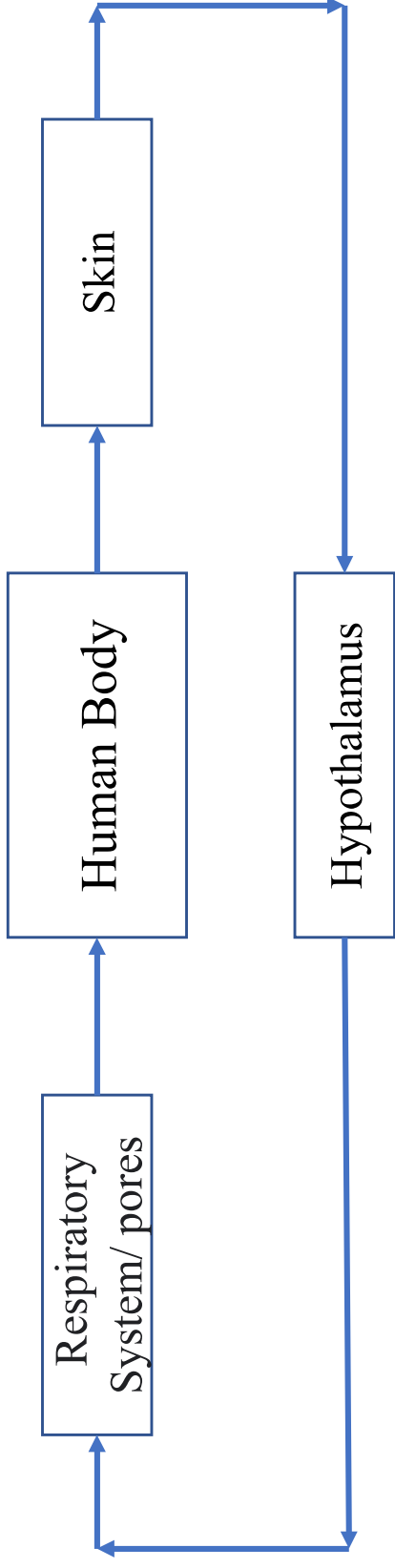


## Block Diagram Representation:

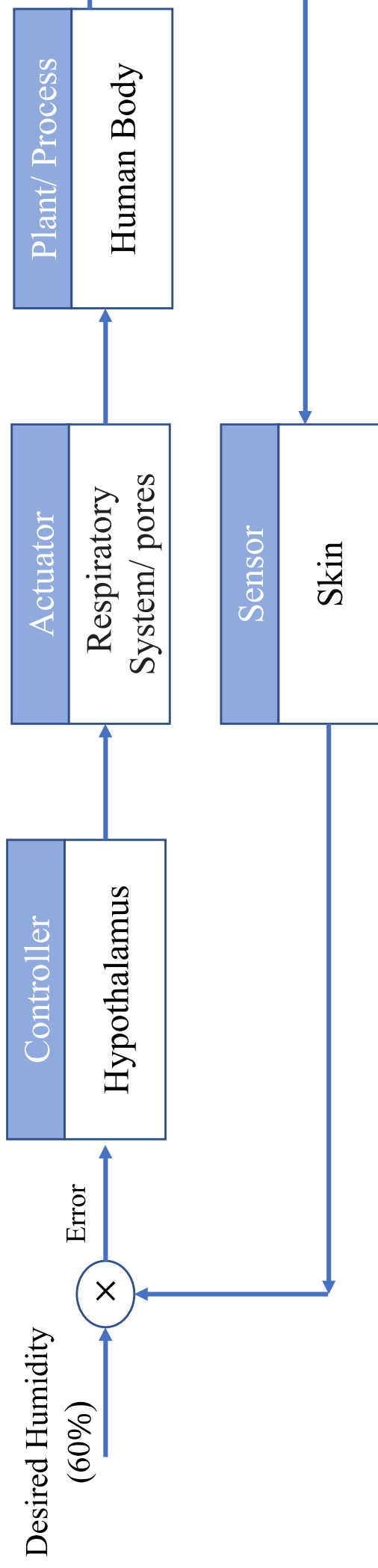


# Human Body Humidity Control System

## Physical system:

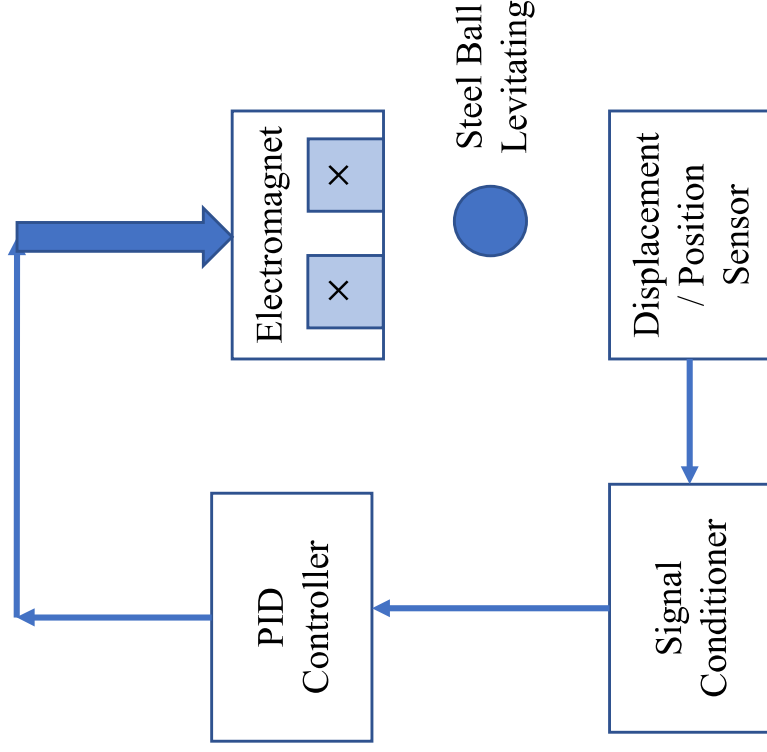


## Block Diagram Representation:

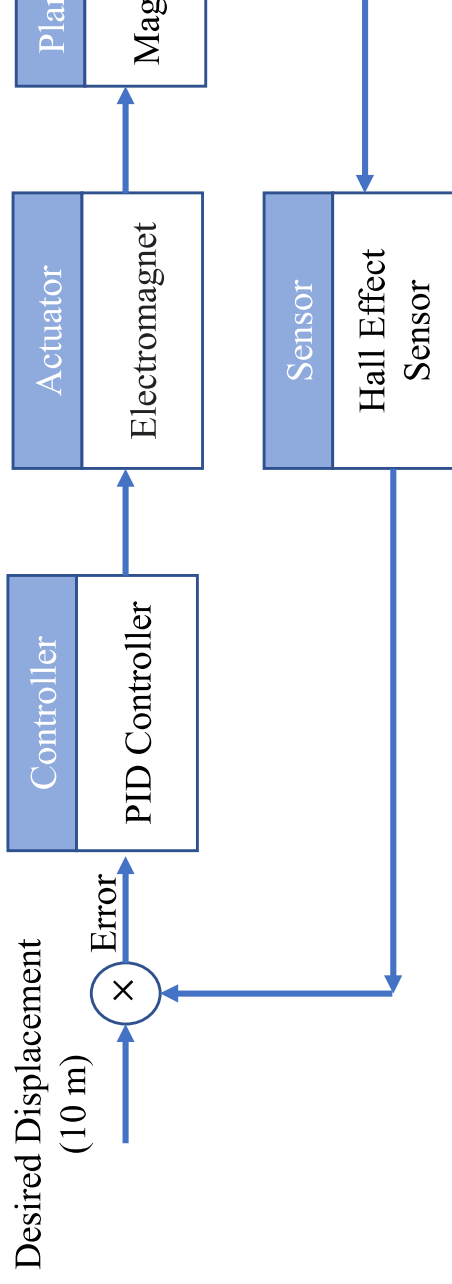


# Maglev Control System

## Physical system:



## Block Diagram Representation:



[Low-cost magnetic levitation project kits for teaching feedback \(studylib.net\)](https://studylib.net)

# Maglev Control System (Cont.)

(5) How do maglev trains work? - YouTube

(5) Magnetically levitating trains - YouTube



**To Be Continued.....**



# THANK YOU