

# Assembly Lab #3: Raspberry Pi Interfacing

Student name:

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Course: *Digital Design II* – Professor: *Professor X*  
Due date: *March 28th, 2025*

## Lab Objective

Interface between Cosmic and the physical world
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### Prelab.

- Set up the Cosmic environment and assembler on a Raspberry Pi.
- Read the documentation on interfacing the Raspberry Pi pins and Cosmic.

## During Lab

Write a simple program that will take input from a button hooked up to the Raspberry Pi and an output to an LED.
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- Poll memory for input from the button.
- Once input is detected, turn on the LED
- If input is no longer detected, turn off the LED

## Grading

30% - Program assembles  
30% - LED lights up on input high  
30% - LED turns off on input low  
10% - Comments added

## Helpful Links

[Cosmic Documentation](#)