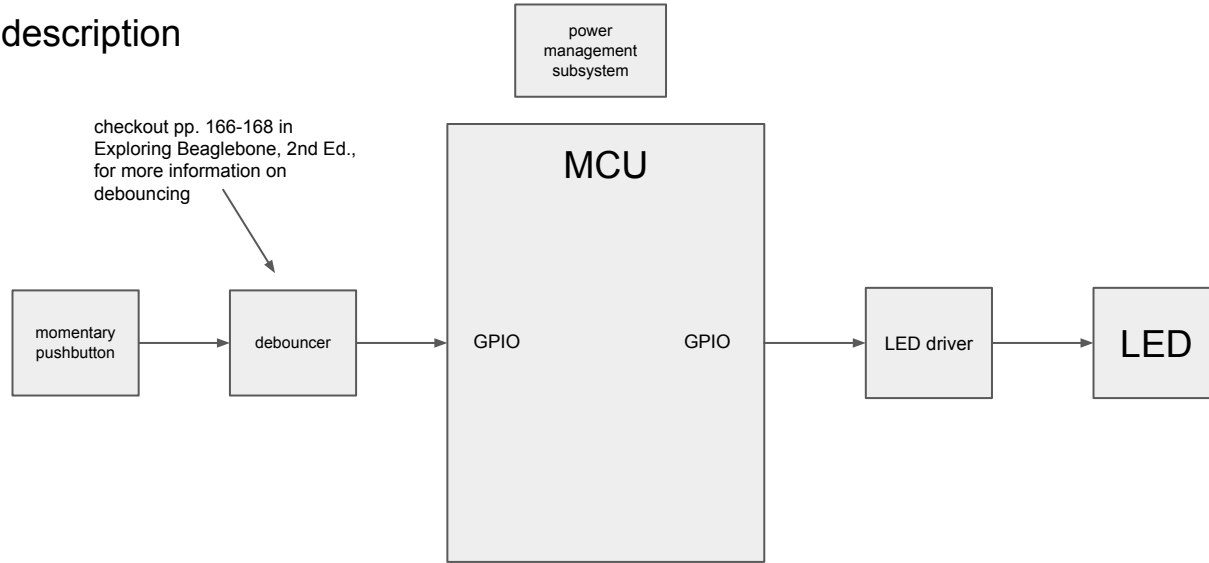


# ESE3002 In Class Assignment (Technical Plan)

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## system-level description



### Operation:

- initial condition: on power up, the LED is OFF
- if user presses the button, the LED begins to flash brightly at 2-Hz
- if user presses the button again, the LED stops flashing, and stays ON
- if user presses the button yet again, the LED turns OFF
- any subsequent button press, starts flashing the LED again, and the same operation continues

# your in-class assignment

provide as a group the detailed technical plan for this system

- 1) hardware-level description
- 2) software-level description

criteria for knowing if you are finished:

- anybody who is an electronics engineer can take your plan and build the system for real!
- your document is **beautiful**

# what makes a design beautiful?

- “proper” integration; (choice of components to meet requirements)
- readability
- detail
- what does “beauty” mean to you?
- B. Allen: “beauty as the anticipation of experience”