

# Python API for Mobile Robot Control

## Progress Presentation-1

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# Objective

- 1 A Python API to control the different peripherals of the  $\mu$ controller
- 2 Provide the user with a option of register level access of the  $\mu$ controller
- 3 Allow the user to design an application without learning a new language and thoroughly knowing the architecture of the controller.

# Block Diagram

# Milestone Achieved

# Future Work

# User code snippet

```
from set_register import *  
import time
```

```
###Configure ports###
```

```
config_register(DDRJ, PIN1 | PIN2 | PIN3, set_pins) #set port pin  
direction  
config_register(PORTJ, PIN1 | PIN2 | PIN3, reset_pins) #initial  
value logic 0
```

```
while True:  
    config_register(PORTJ, PIN1 | PIN2 | PIN3, set_pins) #  
    turn on Leds  
    time.sleep(0.5)  
    config_register(PORTJ, PIN1 | PIN2 | PIN3, reset_pins) #  
    turn off leds  
    time.sleep(0.5)
```