Keypad Module

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Keypad Module APIs

Keypad Initialization

```
/**
 * @brief Initializes the direction of the row keypad pins as output pins,
and the columns keypad pins as input pins.
 */
void KEYPAD_init(void);
```

Keypad Get Key Pressed

```
* @brief Returns the number of position of the key pressed on the keypad
matrix.
  * @return An unsigned integer value that represents the position of the
key pressed.
  */
uint8 KEYPAD getKeyPressed(void);
```

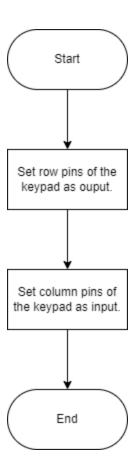
Keypad Get Mapped Key

```
/**
  * @brief Maps the position of the key with the actual value of the keypad.
  * @param current_key_pressed An unsigned integer value that represents the
position of the key pressed.
  * @return An unsigned integer of the actual reading of the keypad.
  */
uint8 KEYPAD_mappedKey(uint8 current_key_pressed);
```

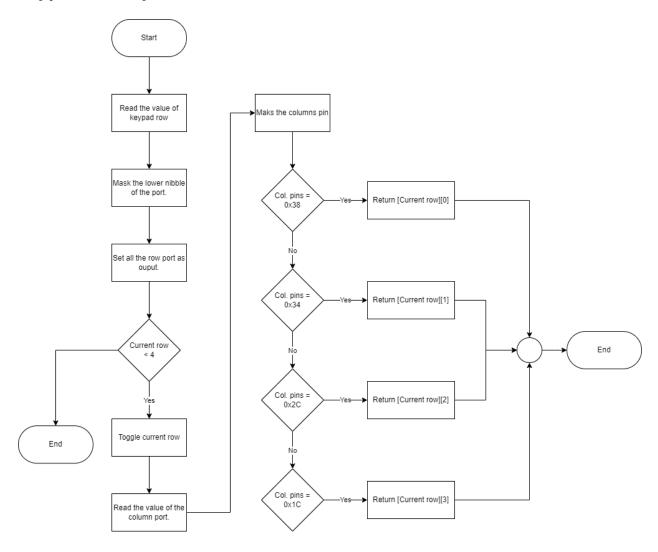
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Keypad Module Low Level Design Flowcharts

Keypad Initialization Flowchart



Keypad Get Key Pressed Flowchart



Keypad Get Mapped Key Flowchart

