



CONESTOGA

Connect Life and Learning

EECE8040

ENGINEERING CAPESTONE PROJECT



ACHIEVERS

GROUP D – THE ACHIEVERS

ACCESS CONTROL AND RECORDING

Initial Software Creation

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The peripherals which we are going to use in this projects are as follows:

- MFRC 522 RFID Reader
- PC Interface
- LCD
- Switches and LED

So for that initially we have interfaced the pins from microcontroller to that peripherals.

➤ MFRC 522 RFID Reader

Function	MRFC 522 RFID READER PIN NO	STM32 Nucleo Board PIN NO
SDA	1	CN10-17
SCK	2	CN10-11
MOSI	3	CN10-15
MISO	4	CN10-13
IRQ	5	NC
GND	6	CN10-9
RST	7	CN10-19
3.3V	8	CN7-16

➤ PC Interface

Function	STM32 Nucleo Board PIN NO
TX	CN7-1
RX	CN7-2

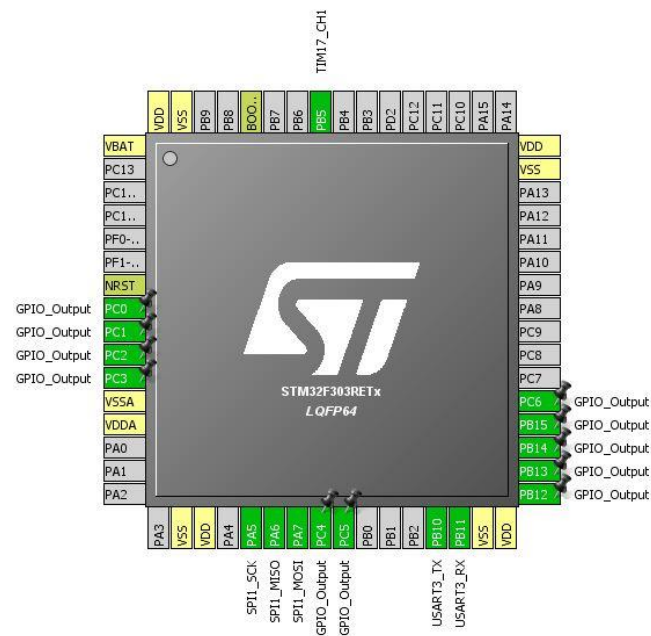
➤ LCD

Function	STM32 Nucleo Board PIN NO
RS	CN7-38
R/W	CN7-36
E	CN7-35
D0	NC
D1	NC
D2	NC
D3	NC
D4	CN7-37
D5	CN10-34
D6	CN10-6
D7	CN10-4

➤ Switches

Switch NO	STM32 Nucleo Board PIN NO
SW0	CN10-16
SW1	CN10-30
SW2	CN10-28

After allocating all this pin we have started making code for initializing all the peripherals.



After initializing all these we checked the led with interfacing that to an output pin. Then we have got below output.

