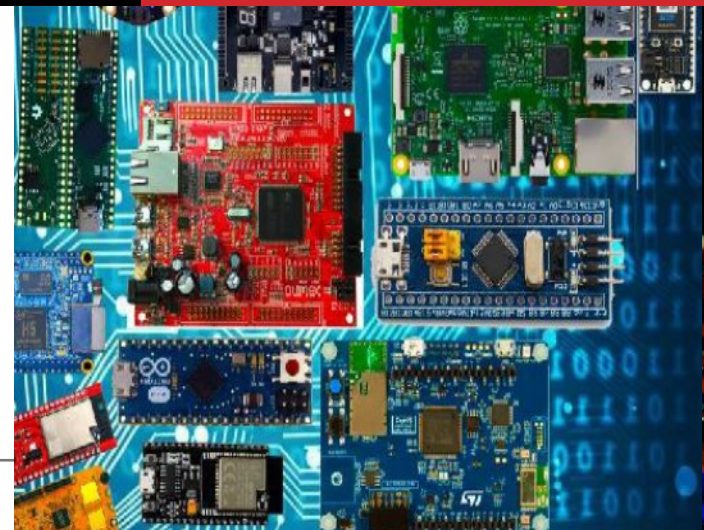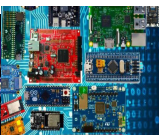# Embedded Systems

LAB 1

Dennis A. N. Gookyi
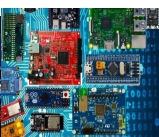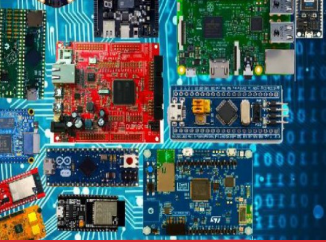
CONTENTS

❖ **Reading From Serial Interface**

ARDUINO

❖ The code below enables reading from serial interface (UART)

```
1  void setup() {
2    // put your setup code here, to run once:
3    Serial.begin(9600);
4  }
5
6  void loop() {
7    // put your main code here, to run repeatedly:
8    if(Serial.available() > 0){
9      byte val = Serial.parseInt();
10     Serial.print("Received: ");
11     Serial.println(val);
12   }
13 }
```

ARDUINO

❖ Modify the code to perform the function below:

▫ Get an input number between 1 and 9 (**VAL**) through the Serial Monitor

▫ The number (**VAL**) should be sent to the Arduino board

▫ The inbuilt **LED** on the Arduino board should be turned **ON** for **VAL** seconds and turned **OFF**