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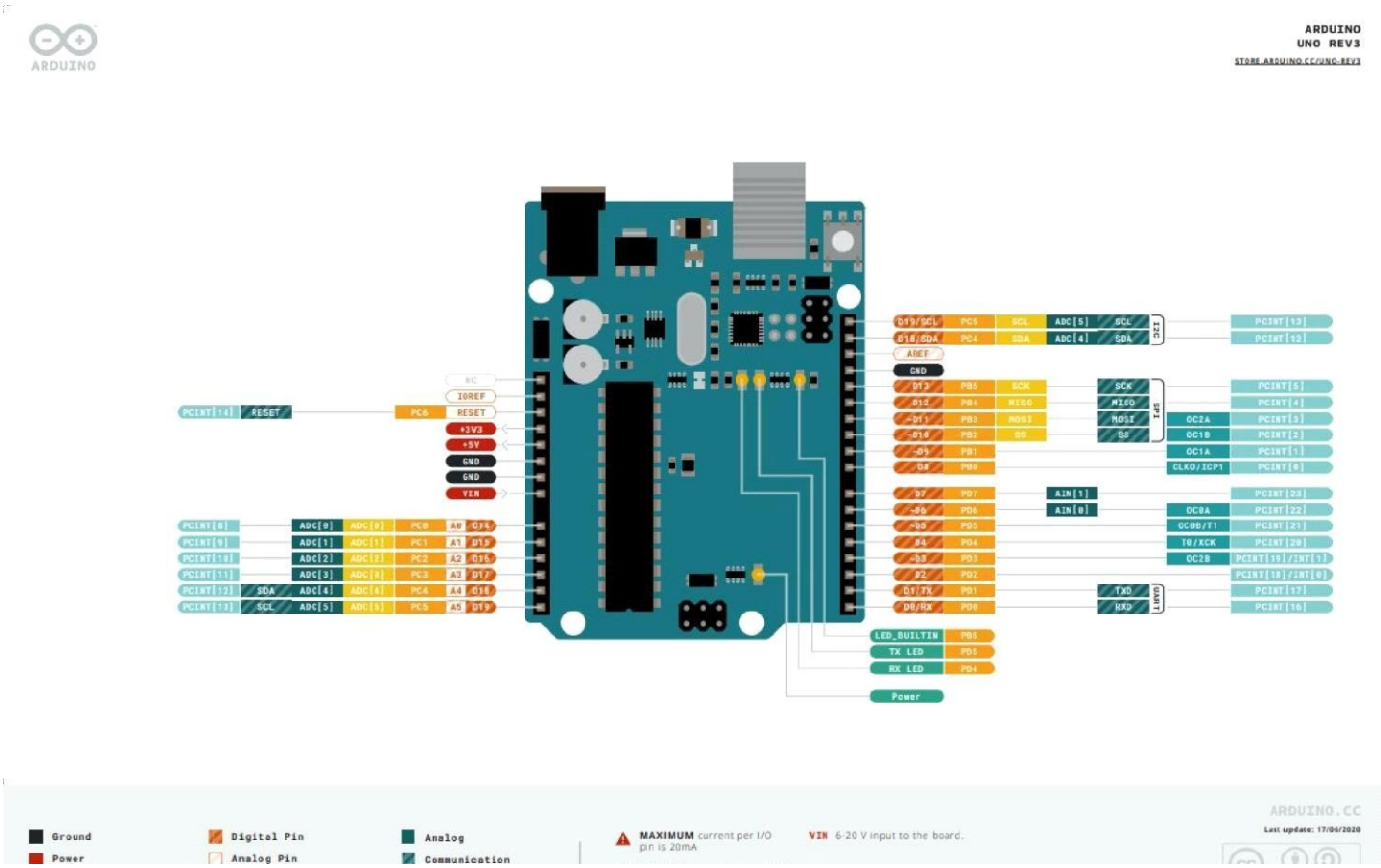
| DAľE | 04 NOVEMBER 2022 |
| ľEAM ID | PNT2022TMID36478 |

- Basics of Aíduino Uno.
- Aíduino IDE.
- Hands-on using ľinkeíCad.


RESET
AREF
GND
13 12 ~11 ~10 ~9 8 7 ~6 ~5 4 ~3 2 TX→1 RX←0
DIGITAL - PWM~
UNO
ON
ICSP
ARDUINO
TX
RX
16.000
ARDUINO.CC
POWER
ANALOG IN
IOREF
RESET
3.3V
5V
GND
Vin
A0 A1 A2 A3 A4 A5




- Microcontroller ATmega328P
- Digital I/O Pins 14 (of which 6 provide PWM output)
- Analog Input Pins 6
- Flash Memory 32 KB (ATmega328P) of which 0.5 KB used by bootloader
- SRAM 2 KB (ATmega328P)
- Clock Speed 16 MHz

End to end integíation of wateílevel

ľypes of píoximity

monitoíing system

sensoís.

píototype 1 using Node-íed.

Intíoduction to MQľľ

Basics of Aíduino

# Sensoí integíation with Aíduino and and Node-íed. nodemcu.

Make a 3 bit counteí with a delay of 500ms inbetween the count.

Use 3 sepaíate LEDs. Simulation tool - l'inkeíCad.

Descíiption :

At 000; LED1 Low LED2 Low LED3 Low At 001; LED1 Low

LED2 Low LED3 HIGHAt 010; LED1 Low LED2 HIGH LED3 Low

...

At 111; LED1 HIGH LED2 HIGH LED3 HIGH