SMART SOLUTION FOR RAILWAYS

DATE	24.09. 2022
TEAM ID	PNT2022TMID23626
PROJECT NAME	Smart solutions for Railways

Objective

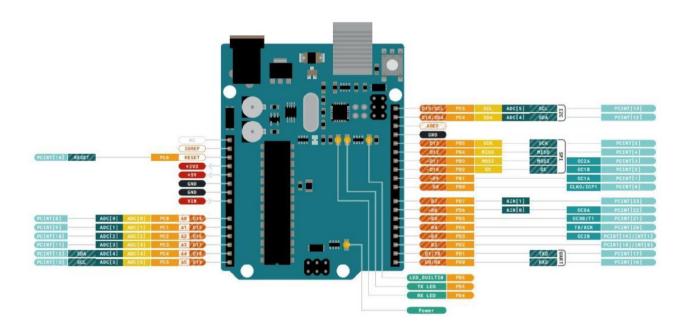
- Basics of Aíduino Uno.
- Aíduino IDE.
- Hands-on using l'inkeiCad.

Aíduino Uno

AVR® 8-Bit Micíocontíolleí Family







Specifications

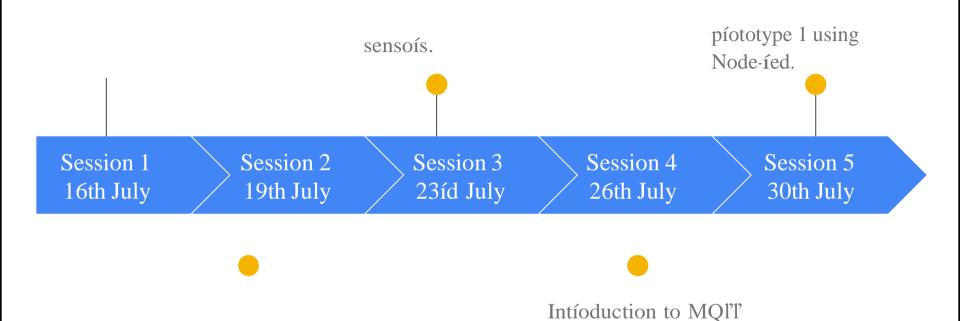
- Microcontroller ATmega328P
- Digital I/O Pins 14 (of which 6 provide PWM output)
- Analog Input Pins 6
- Flash Memory 32 KB (ATmega328P) of which 0.5 KB used by bootloader
- SRAM 2 KB (ATmega328P)
- Clock Speed 16 MHz

Hands-on

1 ypes of píoximity

End to end integiation of watei level

monitoiing system



Basics of Aíduino

Sensoí integíation with Aíduino and

with Aíduino and and Node-íed, nodemcu.

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

Use 3 sepaíate LEDs.

Simulation tool - 1 inkeí Cad.

Desciiption:

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