MCU PROJECT

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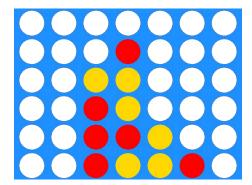
PROJECT STAGES





ABOUT THE PROJECT



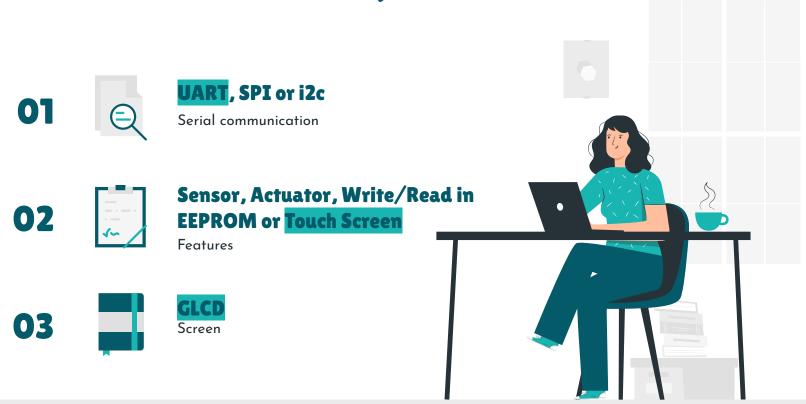




MAJOR REQUIREMENTS

UART, SPI or i2c Serial communication Sensor, Actuator, Write/Read in **EEPROM** or Touch Screen **Features GLCD** Screen

MAJOR REQUIREMENTS



PROJECT GOALS



Apply the theoretical course

This project reflects our comprehension towards the course



Using various features

UART, GLCD screen, Touch screen panel



Enhance our creativity

Make a project that shows our futuristic vision



Improve our abilities as engineer

Teamwork, Continuous learning, Problem solving, Analytical ability, Logical thinking, ...



Manipulate the MCU

To better know the PIC and the EasyPIC



Introduction to embedded systems conception

First experience in this area

Connect 4

GLCD/Touch Screen

UART

Baseline of the game

Game interface

 ${\sf Serial}\ {\sf communication}$

Connect 4

Baseline of the game

42 element array Game Board



GLCD/Touch Screen

GLCD Library <glcd.h>

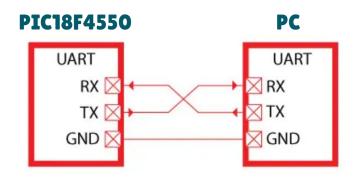
3 main functions glcd_SetCursor(x,y) glcd_WriteString() glcd_FillScreen(0)

ADC Voltage Values Map

	1	2	3	4	5	6	7
X	384	512	576	640	704	768	896
	384	512	640	704	768	832	960
	384	512	640	704	768	896	1024
	448	576	704	768	832	960	1024
	512	576	704	768	896	1024	1152
Y	832	832	768	768	768	768	768
	832	768	704	704	768	768	768
	832	768	704	704	768	704	768
	832	704	640	704	704	704	704
	768	704	640	640	704	704	704

UART

Serial communication

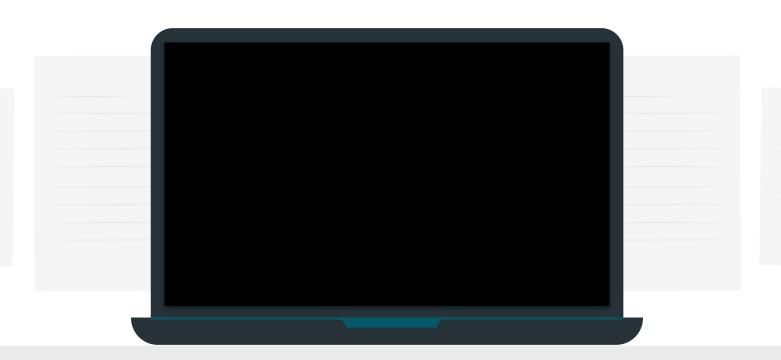


1 function from Library <uart.h>

Display Winner on PC Screen

SNEAK PEEK

Quick demonstration of our project



OUR TEAM



Praveen DE SILVA



Georges KHALIL



Tony THEVASURENDRAN

THANKS

Do you have any questions?

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