

CPT- claw or robot car

car driven on a course or claw to grab/stack two blocks...

4 motors & PICO-W using Python...

-plan build ideas, circuit draft, prototype of where to put parts...

drv8833 is driver chip....research internet for some build ideas!!!

-3" hallway or 3" cubed blocks (2 to be stacked)...

-start planning your build design, and webpage screen!!!

-dec 8th-2023 above....Monday see use/blinky an LED on Thonny!!! dont miss this class!!!

-dec12th-flash_nuke.uf2 onto pico-W drag & drop

-open Thonny configure --> rp2 & picoW, 1.21.1

-Tool Manage Pkg --> SSD1306 download and install on Pico-W not C: drive

-see today's lesson to repeat...watch SDA & SCL pins on LCD vs SDA=pico pin1 and SCL=pico pin2....

-at home run by changing to your wifi.connect('CompEngDpcdsb',CompEng2023!) values...

dec15th-turned LED on/off, then motor forward,backward, and off...--> listed as a dec12th-file date reference...

Rubric Grading Explained

-each section is out of 15 marks...

Knowledge-no parts consumed, working parts, showable, electrically wired correctly

Application-from running code functionality, quality of demonstration & level of reaching objectives in project.

Thinking-rough draft due Monday Jan.15th-4 marks; 11 of 15 due during exam period...(1 per person regardless of single or group); quality of prototype design drawing showing assemble of parts to make duplicate robot.

Communication-due Monday-start of class each item(above); drawing circuit diagram 1 page...labelled fully-see note below..

-have you used proper symbols, labeled pins used, part numbers given, lines, junctions, cross-over wiring shown correctly

Parts Used:

18650 – two batteries, arduino uno to protect the voltage to pico-Nano's, breadboard, dollar store foam boards-\$1.50/ea, Lcd1306, 4 gm8/gm9 motors, mecano wheels vs ordinary wheels for claws.