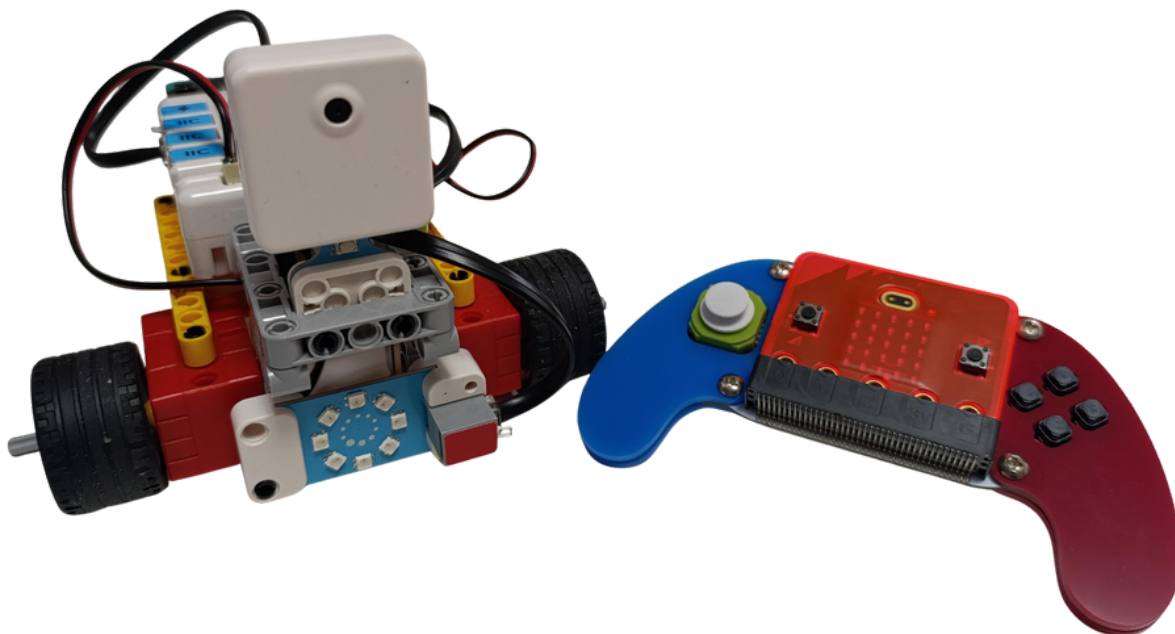


X-MEN

Filip Kuchta

Postavil a naprogramoval jsem robota, který podle barev pozná X-MENy. Robot je ovládán ovladačem. Má na sobě AI kameru, kterou pozná barvy, LED diody, které svítí stejnou barvou, jakou pozná AI kamera.

Robot je postavený ze stavebnice Nezha a programovaný přes micro:bit v Makecode pomocí blokového programování.



Nechtěl jsem porušovat autorská práva a tak jsem se poradil s ChatGPT a ta mi vygenerovala vlastní X-MENy, které mají také mutantské speciální vlastnosti a typickou barvu.

Budu ovládat robota a poznávat jednotlivé X-MENy.



on start

radio set group 1

forever

if button F is pressed then

radio send number 5



forever

if rocker value of Y < 200 then

radio send number 4

else if rocker value of Y > 800 then

radio send number 3

else if rocker value of X < 200 then

radio send number 1

else if rocker value of X > 800 then

radio send number 2

else

radio send number 0



on start

Initialize AI-Lens

Switch function as Color recognition ▾

set strip ▾ to NeoPixel at pin J1 ▾ with 8 leds as RGB (GRB format) ▾

radio set group 1

on radio received receivedNumber

set v ▾ to receivedNumber

forever

if v ▾ = ▾ 1 then

Set motor M1 ▾ speed to 100 %

Set motor M2 ▾ speed to 100 %

else if v ▾ = ▾ 2 then Ⓜ

Set motor M1 ▾ speed to -100 %

Set motor M2 ▾ speed to -100 %

else if v ▾ = ▾ 3 then Ⓜ

Set motor M1 ▾ speed to -100 %

Set motor M2 ▾ speed to 100 %

else if v ▾ = ▾ 4 then Ⓜ

Set motor M1 ▾ speed to 100 %

Set motor M2 ▾ speed to -100 %

else if v ▾ = ▾ 0 then Ⓜ

Stop all motors



forever

if $v = 5$ then

Get one image from AI-Lens

if Image contains color card(s): Blue then

strip show color blue

pause (ms) 500

else if Image contains color card(s): Green then

strip show color green

pause (ms) 500

else if Image contains color card(s): Red then

strip show color red

pause (ms) 500

else if Image contains color card(s): White then

strip show color white

pause (ms) 500

else if Image contains color card(s): Yellow then

strip show color yellow

pause (ms) 500

else if Image contains color card(s): Black then

strip show color black

pause (ms) 500

else

strip show color black

