

DEPARTAMENTO DE AUTOMATIZACION –PP6

PROYECTO DE FIN DE PRACTICAS

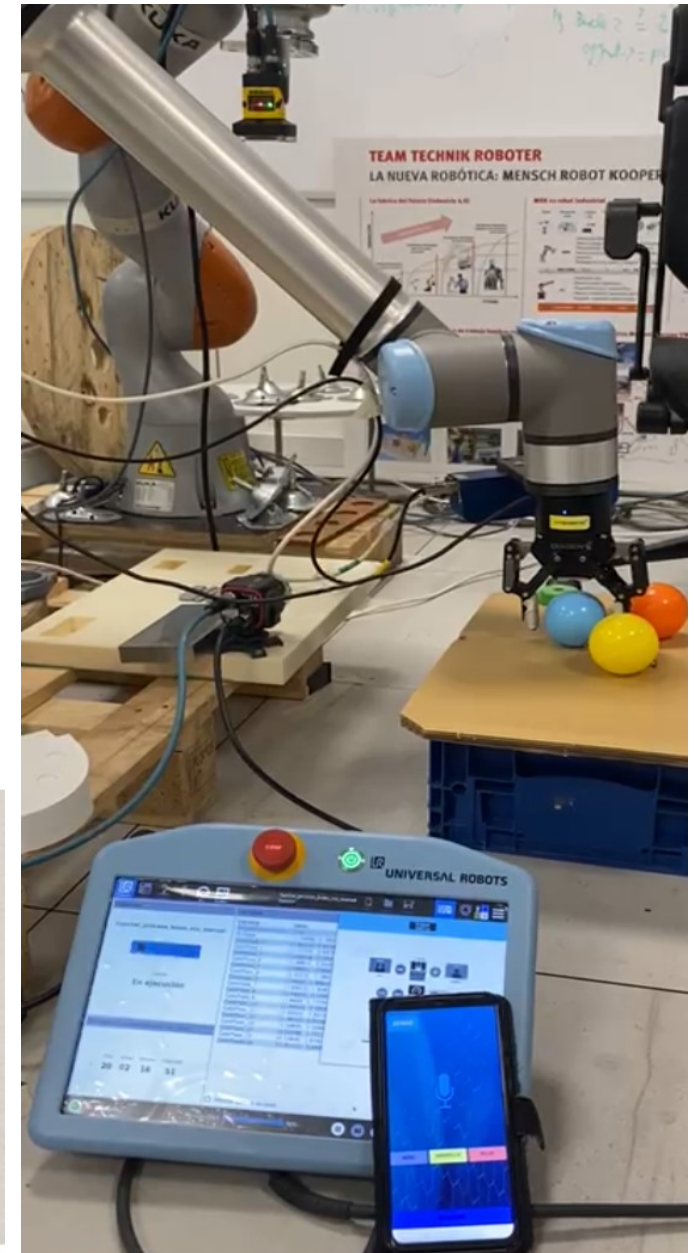
ARI-2º CURSO DE GRADO SUPERIOR DE AUTOMATIZACIÓN Y ROBOTICA

PICK by VOICE

“SISTEMA DE RECOGIA DE PIEZAS EN CAOTICO CON UR Y VISIÓN ARTIFICIAL”

Tutor del Proyecto:
JUAN CARLOS RUBIO CALIN

Fabrica Martorell, Marzo 2021



InPicker

COGNEX

KEYENCE



Google



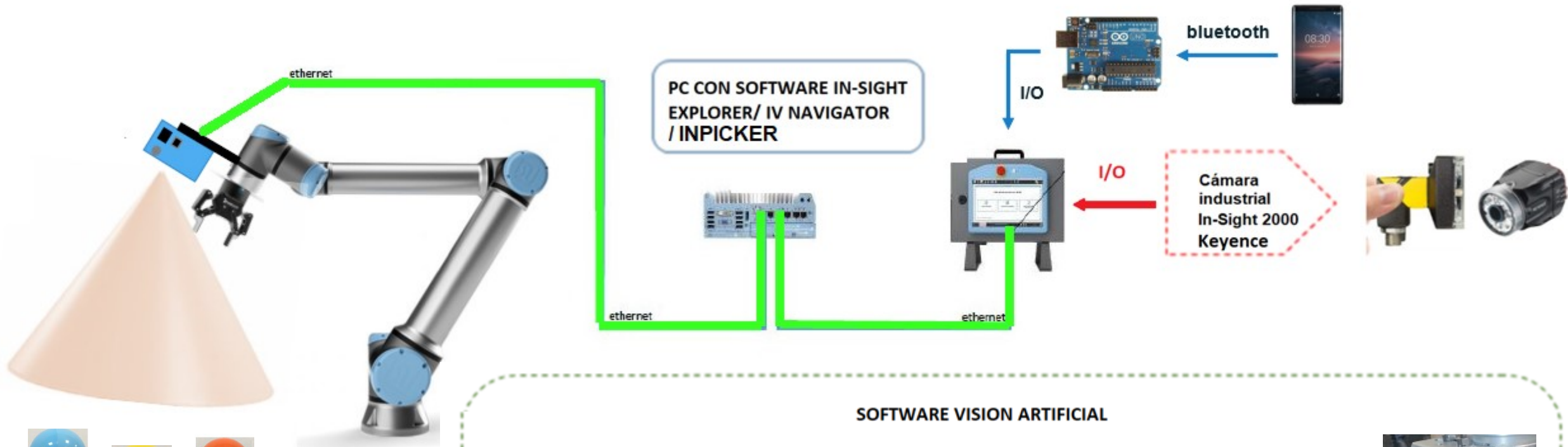
Robot



Cámaras de visión



Microcontrolador



SOFTWARE VISION ARTIFICIAL



InPicker | Process

Program State: Waiting, Copying, Processing, Processing finished, Unavailable

Camera: Connected, Not Enabled, Not IDDED, Unavailable

Communications: Connected, Not ModbusClient, Unavailable

Current Models: Camera, Bin, Rack, Camera

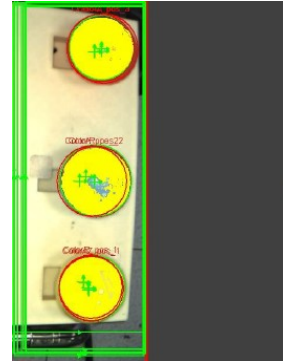
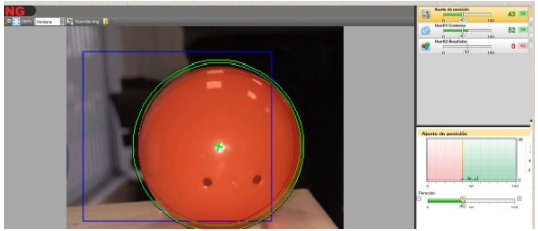
Grasping Details: Frame Size, Frame Rate, Bin ID, Bin ID, Bin ID

Bin Filling Level: 0%

Timing: Idle, 00:00:00.000 - 14%

Average vision cycle time: 379 msec

Log output window showing process logs.



Nombre	Paso
A_pos_1	Paso F
A2_pos_2	Paso F
R_pos_3	Paso F
Lógica_6	Paso F
ColorA_pos_1	Paso F
ColorAZ_pos_2	Paso F
ColorR_pos_3	Paso F
A_pos_2	Paso F
A2_pos_3	Paso F
ColorR_pos_1	Reef
ColorAZ_pos_2	Reef
ColorAZ_pos_3	Reef
Lógica_4	Reef
A_pos_3	Paso F
Lógica_50	Paso F
R_pos_2	Paso F
A2_pos_1	Paso F
A_pos_3	Paso F
ColorAZ_pos_1	Reef
R_pos_2	Reef
ColorR_pos_2	Reef
ColorA_pos_3	Reef
Lógica_1	Reef
Lógica_2	Reef
Lógica_3	Reef
Lógica_5	Reef
Lógica_S2	Reef



The screenshot shows a software development environment with a menu bar (Program, Installation, Move, LO, Log) and a toolbar. On the left, a sidebar lists various program components like 'Basic', 'Advanced', 'Templates', and 'URCaps'. The main area displays a 'Robot Program' tree with a selected 'InPicker_process' block. Below the tree, a 'Command' panel shows 'Items selection' with dropdowns for 'Camera: 1', 'Bin: 1', and 'Object: 1'. Two buttons, 'Insert default program tree' and 'Insert blank program tree', are visible.

