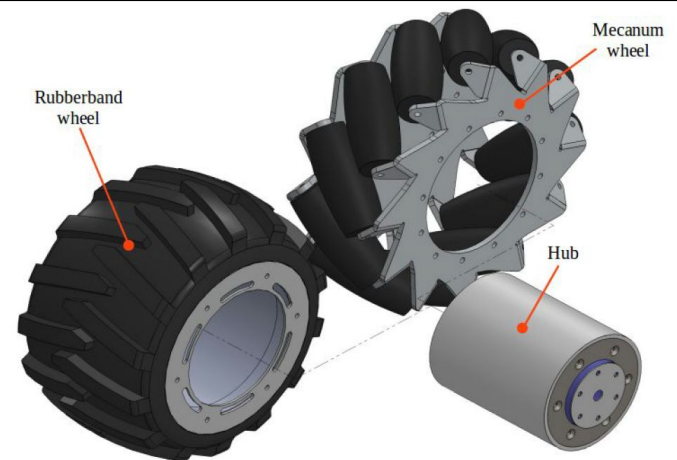# Programación del robot Summit XL

Clase 10
Ing. Alexander López

Wireless antennas · Hokuyo URG · GPS · Hokuyo 3D Lidar · Fotonic camera · Axis PTZ camera · X-tion camera · Shock · Battery - protection case · Silent block · Motor - wheel

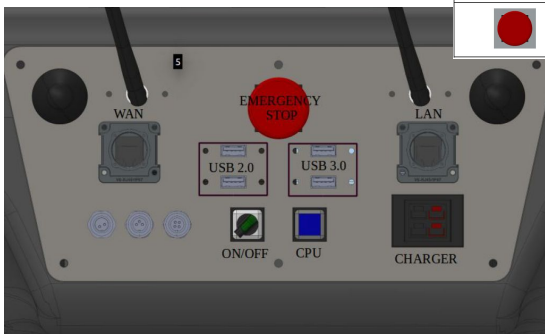Mounting faceplate · Upper cover · Emergency button · Housing · Rear cover · Battery · Motor-wheels

Rubberband wheel · Mecanum wheel · Hub
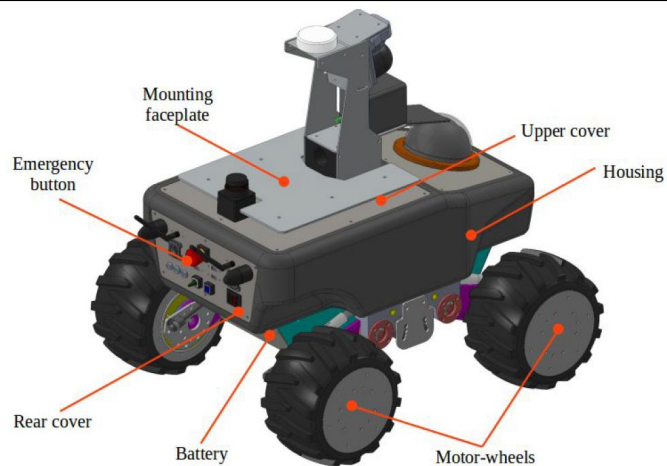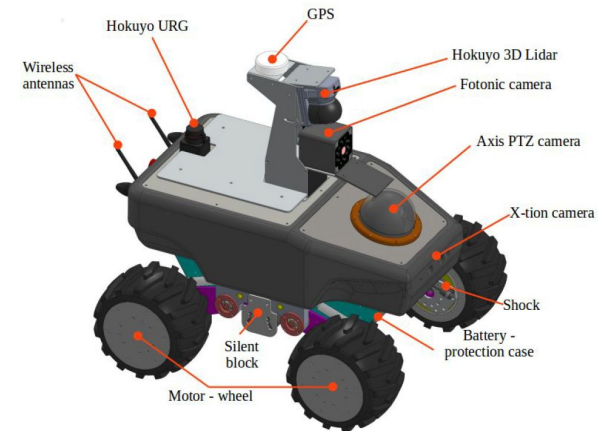
Partes del Robot

Driver de motores con comunicación CAN

Tablero del robot

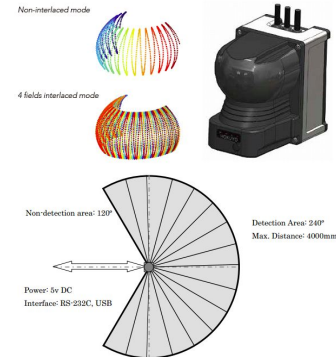|	
	ON/OFF switch
	PC button
	Emergency button

Cámara 360° de seguridad

Sensor Laser Hokuyo URG-04LX-UG01

Sensor 3D Hokuyo

Non-interlaced mode

4 fields interlaced mode

Non-detection area: 120°
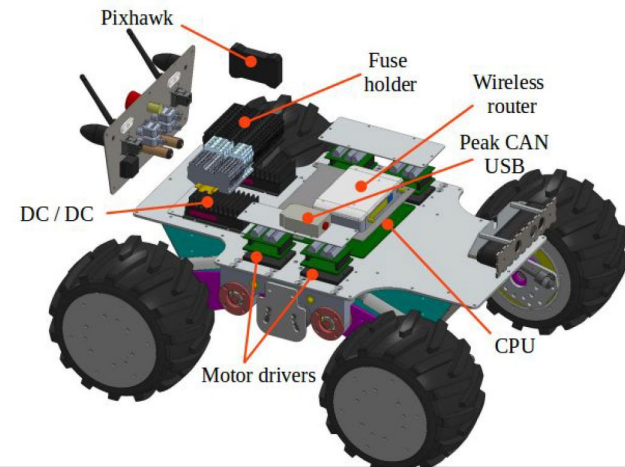
Detection Area: 240°
Max. Distance: 4000mm

Power: 5v DC
Interface: RS-232C, USB

Fotonic 3d Camera
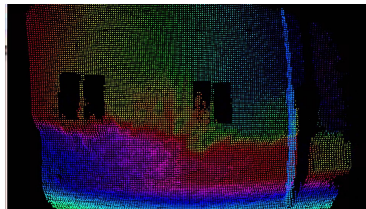
Sensor de profundidad

GPS

Pixhawk
Fuse holder
Wireless router
Peak CAN USB
DC / DC
CPU
Motor drivers

Computadora Jetway

Modem

Ethernet port
WAN port
Power
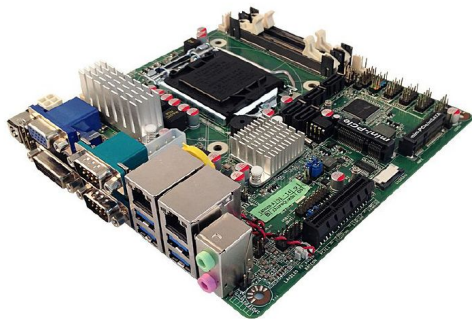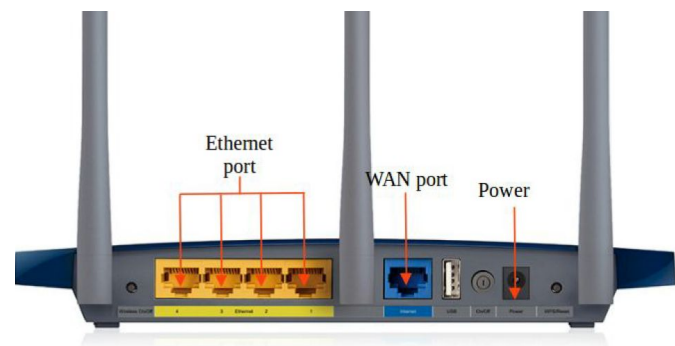
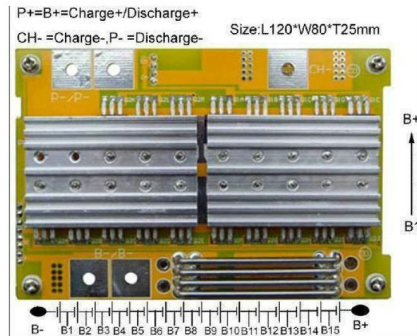## Convertidor DC-DC
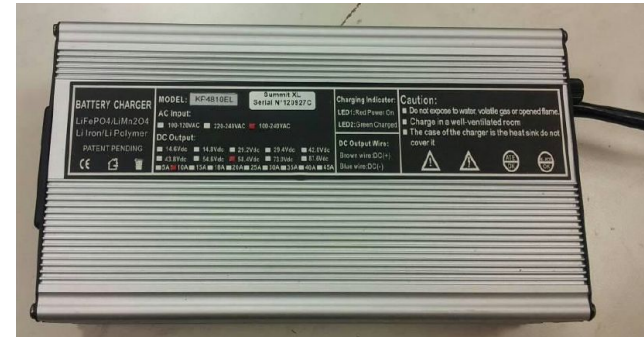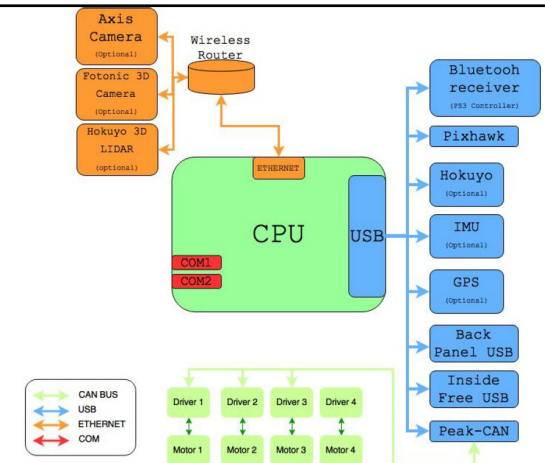

Borneras y panel de fusibles
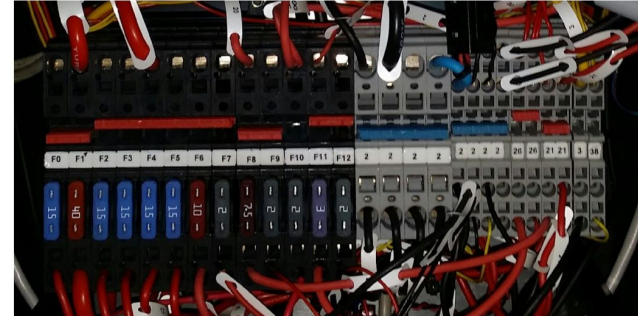
Pixhawk

Batería LiFePo

Sistema de carga del robot

Cargador de baterías
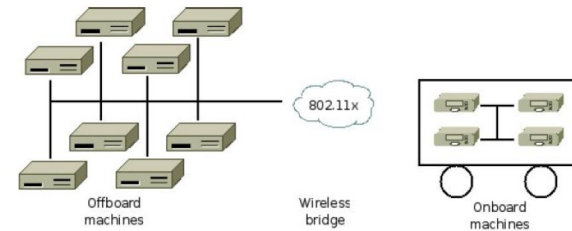

Partes del cargador

Software

Diagrama de comunicación

Offboard machines   Wireless bridge   Onboard machines

Robot simulado
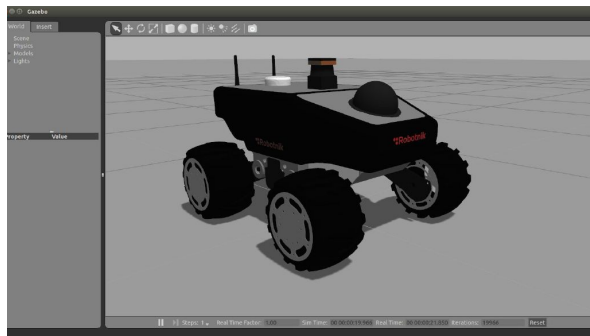
Parámetros de comunicación

Wifi:
Wifi SSIDs: Summit XL (A..Z)
Wifi Password: R0b0tn1K (R and K capital letters)
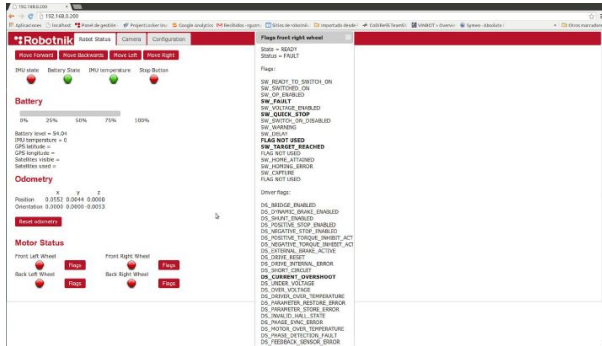
Router:
User/Password: root / R0b0tn1K
Router IP Address : 192.168.0.1

Rover Computer:
User/Password: summit / R0b0tn1K

And the password for the AXIS camera is also R0b0tn1K

Interfaz de usuario

Interfaz de usuario

Control del robot

Dead man button

Control del robot

TILT - PTZ Cam

Start button

PAN - PTZ Cam

Linear Speed

Increase Speed Level

Decrease Speed Level

Angular Speed

Crear Summit workspace

Sourcing

Moveit!

Instalar movit!

Conectarse al robot via Wifi
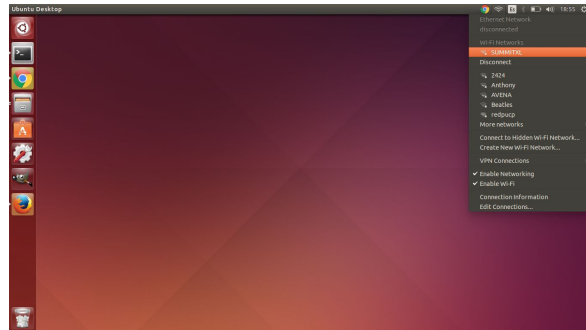
Ubicación del Master!

Lista de tópicos

Summit en Rviz
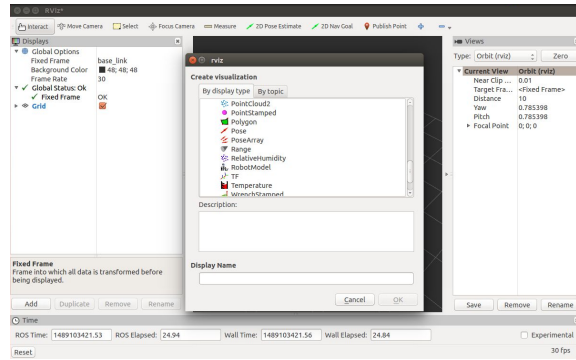
Summit en Rviz
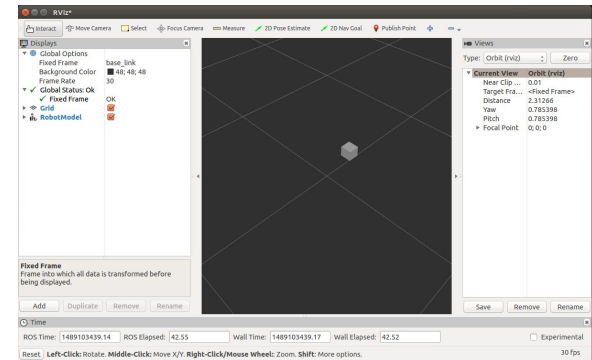
Summit en Rviz
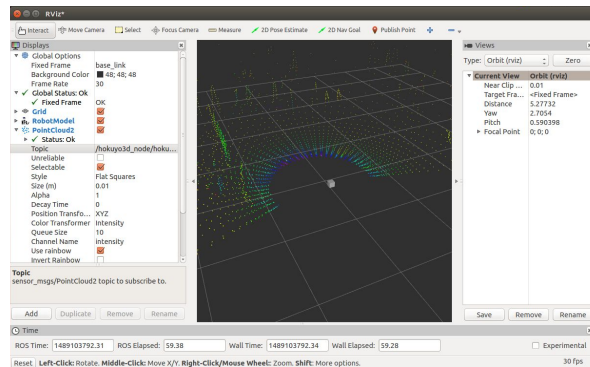

Summit en Rviz

¡Gracias!

¡La única pregunta tonta es la que no se hace!