Project progress

Team D

23/09/19

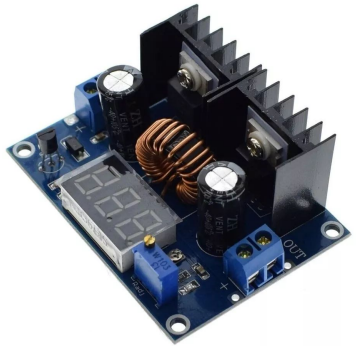
Agenda:

-System power supply

-Camera mount

- x80 wireless connection test

Power supply x80 robot and UP board



X80 robot

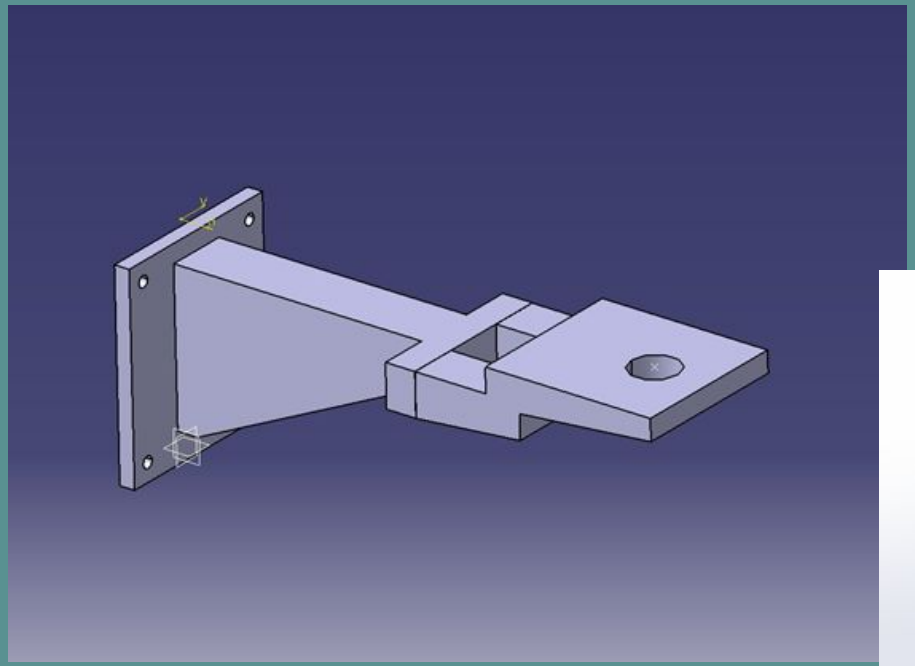
Input voltage: 11.1 V

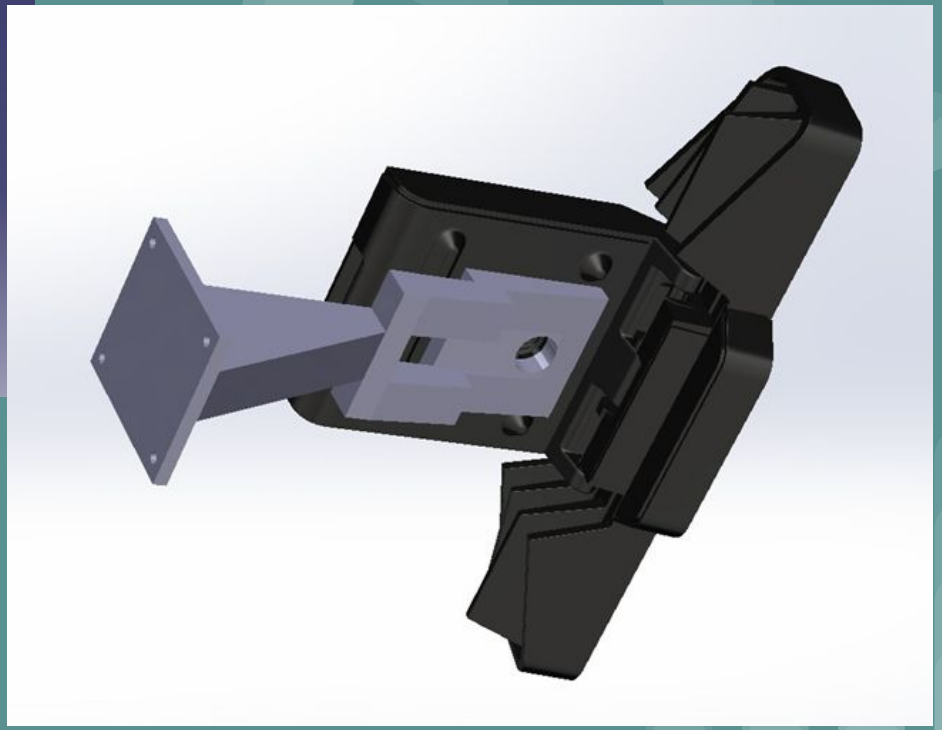
Output voltage(adjustable): 7.5V

Up Board(regulator included):

Input voltage: 11.1 V

Output voltage: 5V

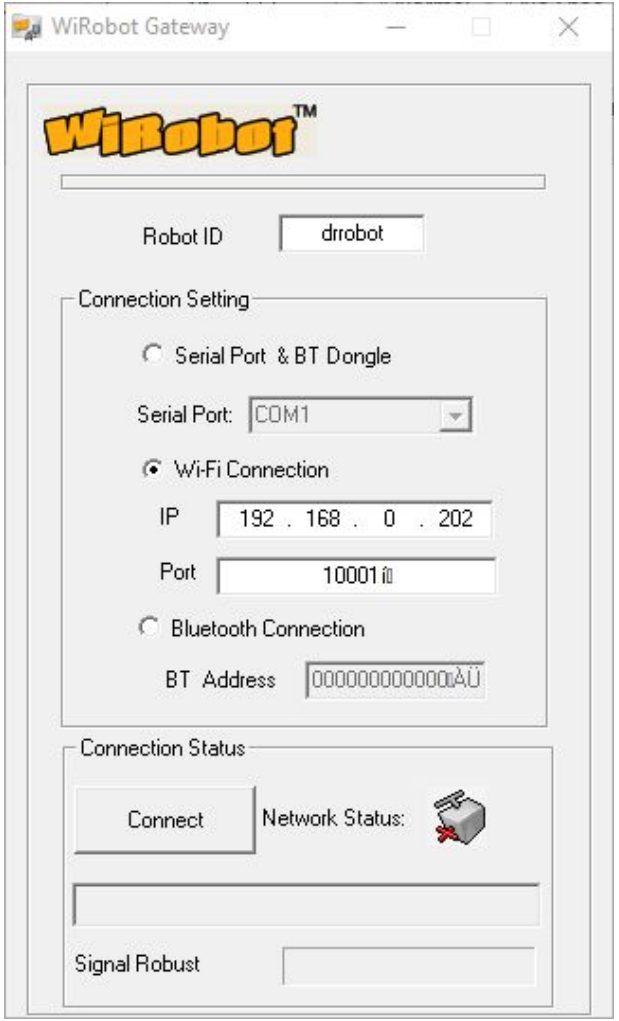


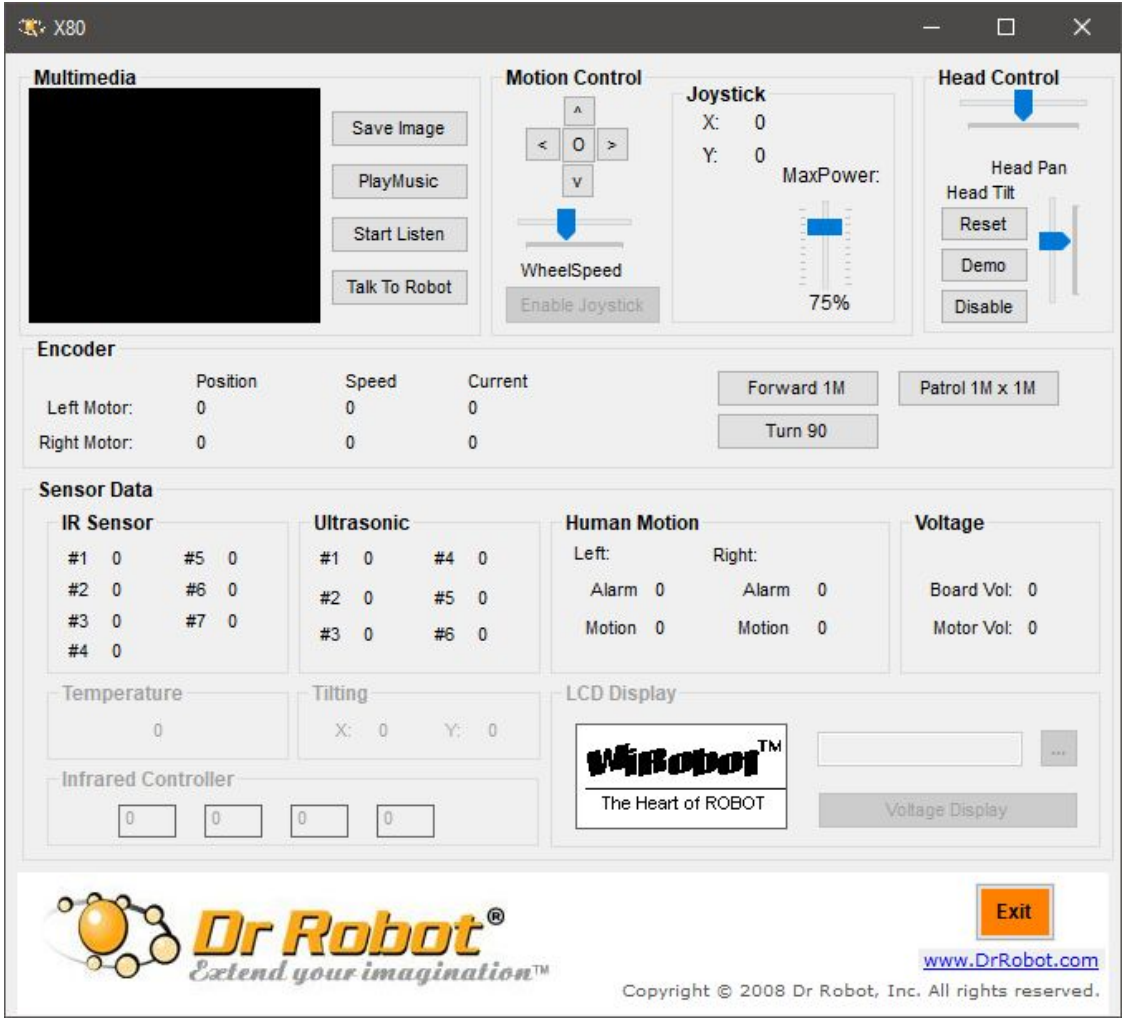


Real Sense 300 camera mount CAD

(component changes)

Wireless connection




X80
Multimedia
Save Image
PlayMusic
Start Listen
Talk To Robot
Motion Control
^
<
O
>
v
WheelSpeed
Enable Joystick
Joystick
X: 0
Y: 0
MaxPower:
75%
Head Control
Head Pan
Head Tilt
Reset
Demo
Disable
Encoder
Position
Speed
Current
Left Motor: 0 0 0
Right Motor: 0 0 0
Forward 1M
Patrol 1M x 1M
Turn 90
Sensor Data
IR Sensor
#1 0 #5 0
#2 0 #6 0
#3 0 #7 0
#4 0
Ultrasonic
#1 0 #4 0
#2 0 #5 0
#3 0 #6 0
Human Motion
Left:
Alarm 0
Motion 0
Right:
Alarm 0
Motion 0
Voltage
Board Vol: 0
Motor Vol: 0
Temperature
0
Tilting
X: 0 Y: 0
LCD Display
The Heart of ROBOT
Voltage Display
Infrared Controller
0 0 0 0
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AAEON UP board & R200 Real Sense camera

Advantages:
-Previous project documentation
-No compatibility issues

Project progress

Milestone	Assigned To	Start Date	Number of Days	Week	Sep 9-13	Sep 16-20	Sep 23-27	Sep30-Oct4	Oct 7-11	Oct 14-18	Oct 21-25	Oct29-Nov1	Nov 4-8	Nov 11-15	Nov 18-22	Nov 25-29
					SSR				CDR			Semana		SIR		Demo
					(Sep 9)				(Oct 7)			i		(Nov 11)		(Nov 25)
Robot Connection and Startup	Everyone	10-Sep-2019	4													
Wireless Control Test	Emmanuel	17-Sep-2019	3													
On-board PC Supply Design	Uriel	17-Sep-2019	1													
On-board PC Supply Implementation	Uriel	18-Sep-2019	2													
On-board PC Configuration	Everyone	23-Sep-2019	5													
Use of PC as a ROS node	Marcos	30-Sep-2019	3													
ROS Remote Interfacing to the Robot	Emmanuel	30-Sep-2019	3													
Camera Mount Design	Marcos	16-Sep-2019	3													
Camera Mount Manufacturing	Marcos	19-Sep-2019	1													
Integration of Camera into Robot	Marcos	20-Sep-2019	1													
Remote Access to Camera through ROS	Uriel	3-Oct-2019	2													
Coordinate Frames Tracking and Transform Publication	Everyone	7-Oct-2019	10													
Map Building and Visualization with Manual Control	Everyone	21-Oct-2019	10													
Full Simultaneous Localization and Mapping (SLAM) Implementation	Everyone	11-Nov-2019	10													