An extract of the code of the node sending bytes to the board:



```
POLYTECH<sup>®</sup>
```

```
# node creation
robair node = RobairNode('/dev/ttyUSB0')
# launch of the node
robair node.main loop()
main loop(self):
   while not rospy.is shutdown():
        self.move()
        time.sleep(1)
def move(self):
   direction = self.current cmd.move
    self.send order(direction)
# send order to the board
def send order(self, order):
   # change the mode
   self.set mode(2)
   # synch byte
   self.ser.write("\x00")
   # motor 1
   self.ser.write("\x31")
   # medium speed
   self.ser.write("\x64")
```



http://air.imag.fr



Please visit our wiki:



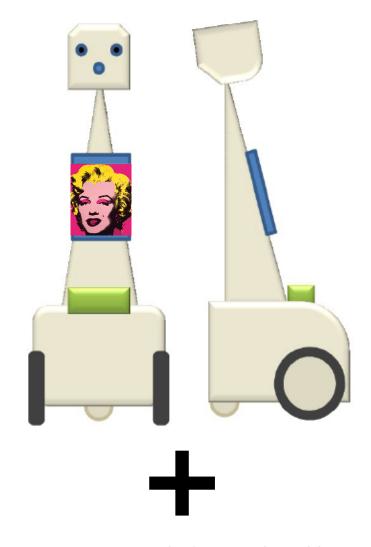
 $http://air.imag.fr/mediawiki/index.php/Robot\_Operating\_System$ 



## **RobAIR** project:

RICM and 3I departments from Polytech'Grenoble, ENSIMAG and Pôle Design de Villefontaine

A telepresence robot for museum tours:

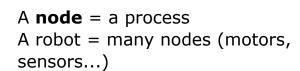


an open source platform and a tablet

## Our sub-project:

Manage the robot control





Nodes communicate over **topics** (subscriber/publisher model) by sending messages



node listening the keyboard

node sending bytes



bytes are sent to the Devantech board

