

2nd TEST (Raspberry, Tiva and SSH)

This task must be done by all the group members and will be presented at the beginning of the test scheduled for Thursday November 9th. This task will represent 40% of the test score and will be evaluated in group.

- The group need to assemble a small vehicle that can go forward, backward, turn left and turn right.
- Additionally, the vehicle must have the possibility to stop.
- The different commands (forward, backward, left, right, 100% speed, 50% speed, stop) must be controlled remotely **Tip:** Use SSH and a simple graphic interface to ease the control.
- The vehicle must integrate Raspberry Pi, TM4C1294XI and a camera connected to raspberry. The solutions for the previous exercises must be implemented combining raspberry pi, TIVA and SSH.

Here is an idea of how to implement the vehicle, use simple and easy to combine structures as the main focus is on the mobility rather than the aesthetic.

