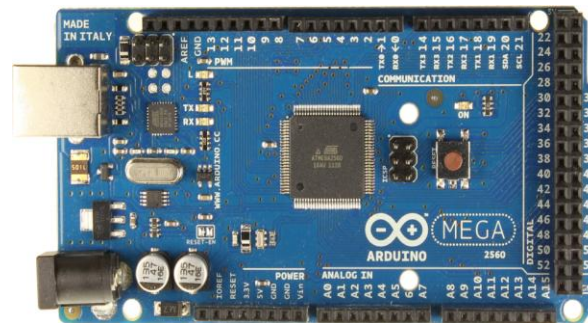


Robin OUALLET Hubert CABOT

<http://car.mines-douai.fr/squeaksource/Arduino.html>

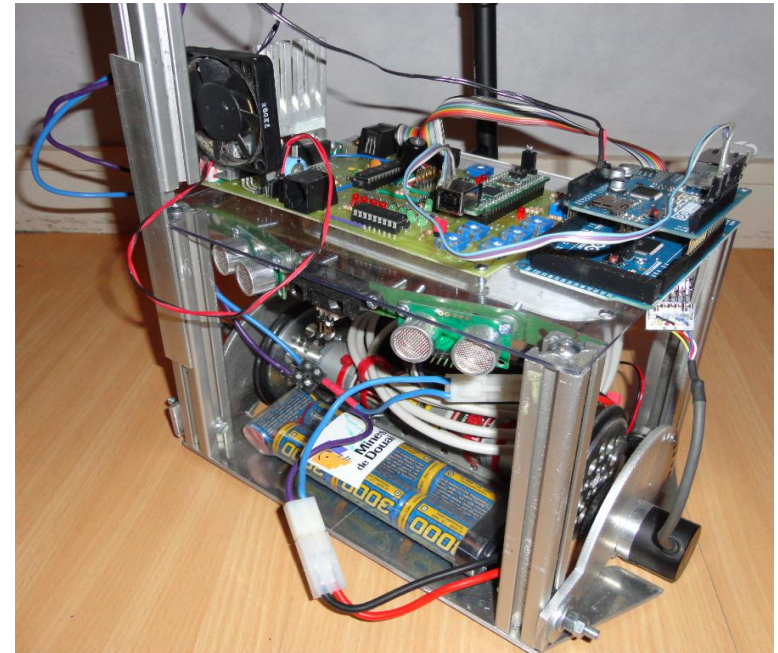
# Interfacing Pharo with an Arduino Board over Ethernet



```
Robot>>describeASquare
CTranslator-Translators-C...
CTranslator-Exceptions
CTranslator-Programs
CTranslator-Output-Cpp
CTranslator-Output-C
Arduino-Core
Arduino-Core-Devices
Arduino-Core-Firmata
Arduino-Core-Firmware
Arduino-Core-PinMode
Arduino-Compiler-Uploadi
Arduino-Compiler-Sketch
Arduino-Compiler-Translat
Example
PredefinedTests
Robot
-- all --
Mouvement
initialize-release
accessing
backward
describeASquare
forward
initialize
led1
led1:
led2
led2:
ledsAtZero
powerLed
powerLed:
turnLeft
turnRight
Instance ? Class
Browse Senders Implementors Versions Inheritance Hierarchy Inst vars Class vars Source
describeASquare
|delay|
delay := Delay forMilliseconds:1000.
4 timesRepeat: [
self forward.
delay wait.
self turnRight.
delay wait.].
4 timesRepeat: [
self turnLeft.
delay wait.
self backward.
delay wait.].
```

Using Firmata protocol to communicate via Pharo with an Arduino board

- Wireless control of a robot
- Home automation applications



# Pharo packages

- Using : Arduino packages (Firmata class mainly)
- Developed :
  - FirmataOverEthernet
  - Examples (including robot control)

