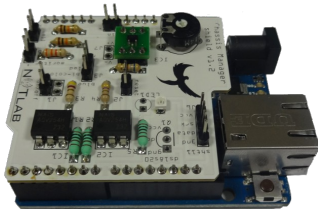


# Configuring the NITlab Chassis Manager (CM) Card

## Components needed

1. NITlab Chassis Manager (CM) Card
2. FTDI programmer 5V (you can acquire the programmer for aprox. \$15 from [Sparkfun](#))
3. Male Mini-USB-B to Male USB-A cable



NITlab CM Card



FTDI programmer



Male Mini-USB-B to Male USB-A cable

## Installing the Arduino IDE

1. Download the Arduino IDE from <http://arduino.cc/en/Main/Software> and install
2. Download the additional libraries from [here](#)
3. Extract the libraries and copy them to the *libraries* folder inside the *arduino* folder

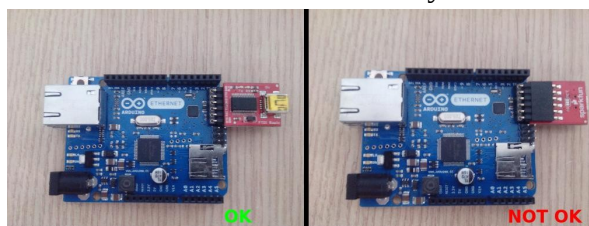
## Upload code to the CM Card

1. Connect the CM Card to the computer via the FTDI programmer
2. Open the Arduino IDE and load the NITlab CM Card Firmware code (*File* → *Open...*)
3. In lines 33, 34, 73 and 75, **change the MAC and IP addresses to the desired ones**
4. Select the board type: **Tools** → **Board** → **Arduino Ethernet**
5. Select the serial port: **Tools** → **Serial port** → **/dev/ttyUSBx** (or **COMx** for Windows)
6. Hit the *Upload* button

## Troubleshooting

My Serial port is not shown under the *Tools*->*Serial port* tab in the Arduino IDE:

- Make sure that the FTDI board is connected correctly



- For Windows users, make sure the FTDI drivers are installed  
<http://www.ftdichip.com/Drivers/VCP.htm>

When I hit the *Upload* button, some error messages are displayed and the uploading fails:

- Make sure you have installed the libraries correctly
- If the errors persist, try installing a different version of the Arduino IDE