**Can bus and communication between nodes**

This is the exercise where node 2 will be introduced for the first time- As shown in chapter 1.1

It consists of the Arduino mega 2560 development kit, an expansion card and an IO card

**MCP2551**

The mcp is a can transceiver whish serves as the physical interface to the actual wires that consititue the can bus. It will be connected between the can controller and the wire pair of the bus.

**Arduino USB communication**

The Arduino mega 2360 allows us to use the USB connection as a USB to serial bridge via a separate atmega chip onboard. This extra chips is the unit to the right seen to the right in the Arduino schematic.

**Expansion card**

The expansion card sitis on top of the Arduino mega 2560 providing hearders to simply the connection between the Arduino, IO card and motor box. In addition, it allows access to the atmega2560’s ISP and JTAG programming interface.

The IO card

The io ard contain the ICs required to complete Node 2, including a CAN interface and a DAC.