



Potenza, ITALY, 4th and 5th of May 2017

4th of May 2017

The second transnational project meeting took place in Italy on the 4th and 5th of May 2017. The representatives of the project partners from Portugal, Romania, Greece, Turkey and Italy had their interesting exchange of experience at the "Istituto Professionale di Stato per l'Industria e l'Artigianato" in Potenza.

This vocational school prepares young people for their future working life in the field of mechanical, electric and electronic industry, maintenance handcraft, social and health care.

On the first day, after a friendly welcome of the school manager, the teachers involved into the project showed the school and the different laboratories to their guests. They had the opportunity to see students and teachers at work, using specific machinery and materials with competence and consciousness.

At the end of the visit, the group moved to the "meeting room" for the opening of the meeting and the presentation of the module kit developed by Italian partners.

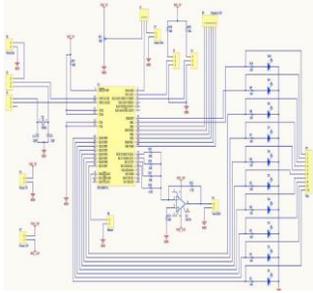
Some students under the direction of prof. Zaccagnino and prof. Sassaroli, have developed ADC converter, a microcontroller of the PIC family. The project converter is at 10 bit, from 0 to 4 volts. It could also be utilized at 8 and 4 BIT with the possibility to use an external clock in order to increase the encoding times for a slower reading.

The core of the board is the PIC 16F877 at 40 pin programmable in BASIC, connected to the input and output and to the power supply through resistance. For reasons of presentation and verification of functioning, they have chosen to manage the input by means of a multi-turn potentiometer.

After lunch, a visit to the ANSALDO STS, an Italian Engineering company, maker of railroad equipment and rail signalling, was followed.

Finally, a cultural visit took place: Brienza, a medieval village with its churches and Caracciolo castle dominating the valley, in Basilicata.





5th of March 2017

On the second day, the group discussed about the lists of used programs, the possibility to implement their functions and suggested methodological integrations and technological innovations.

During the presentation, signal generators, analog voltmeters, oscilloscopes and displays were used. 7 experiments were carried out to verify the ADC training kit.

- 1) Verification of 8-bit encoding
- 2) Verification of 4-bit encoding
- 3) Check with 10 kHz external clock
- 4) Check with 40 kHz external clock
- 5) Instrumental verification with voltmeter / analog output signal
- 6) Instrumental verification with voltmeter / analog output signal

Lastly, the list of programs used and the possibility to implement additional functions were discussed. The various components of the group have been suggested methodological integrations, technological innovations in order to improve the didactics and attain ever higher standards of technology.

At the end, there are also questions and requests for clarification to refine your knowledge and to do your job better.

Finally, the school manager delivered certifications to every participant and the Erasmus tree was planted.

The group, also, visited Matera, the Capital of Culture 2019.

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