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„Robotics ON" Project

Strategic Partnership supporting innovation
Erasmus + Programme, Key Action 2
01.11.2017 - 31.10.2019

NEWSLETTER NO 2
August 2018

PARTNERS:

P1. Colegiul Naţional "Constantin Carabella"

Târgoviște, **ROMANIA**

website: http://www.carabella.ro

P2. Anyksciu Jono Biliuno gimnazija

Anykščiai, **LITHUANIA**

website: http://www.bilngimn.lt

P3. Budapesti Gépészeti Szakképzési Centrum Szily Kálmán Müszaki Szakgimnáziuma, Szakközépiskolája és Kollégiuma

Budapest, **HUNGARY**

website: http://www.szily.hu

P4. Istituto Istruzione Superiore A.Volta

Frosinone, **ITALY**

website: http://www.voltafr.gov.it

P5. S.C. SKA NET SRL

Bucharest, **ROMANIA**

website: http://www.itadviser.ro

P6. IMPLEMENT 24SOFTWARE SRL

Bucharest, **ROMANIA**

website: http://www.24software.ro

TARGET GROUP:

84 students (15-18 years old), 21 from each school, students interested in personal development, using ICT in the design and creation of robots, activities that will stimulate and increase the chances of employment at the right time.

OBJECTIVES:

1. Developing digital and entrepreneurial skills relevant to personal development and career.
2. Increasing the autonomy in terms of personal and professional development of the 84 students in Robotics Clubs, at least 32 of them competitive in programming / robotics.
3. Developing the capabilities to adapt, promote and exploit digital technologies by creating a robot, in each partner school, which solves a problem identified at school level.

PROJECT ACTIVITIES
APRIL-AUGUST 2018

April 16-20, 2018 disseminating after the STEGP meeting C1 in Romania

The students who had participated in STEGP meeting C1 in Romania shared their experience with their fellow students and teachers.

April 23-27, 2018 carrying out the SWOT analysis

THE RESULTS OF SWOT ANALYSIS:

Strengths:

• The time wasted when searching for books would not be a problem anymore.

• You will not have to go to the library to find out if the books you need are available.

• The librarians would have more time for their other responsibilities.

Weaknesses:

• The school's administration may not support the idea.

• Stealing books would be quite possible.

• The librarians may view the idea with suspicion as they might be afraid of losing their job.

Overall, this would create more opportunities to improve at programming and the members of the Robotics club would set a good example to other students in encouraging them to get involved in programming.

However, threats should not be forgotten either as they need to be prevented. The school library may suffer some book loss and the administration may not be very pleased by our project idea, which will then need some effort to be made by students in order to convince them with benefits of the robot to be created in future.

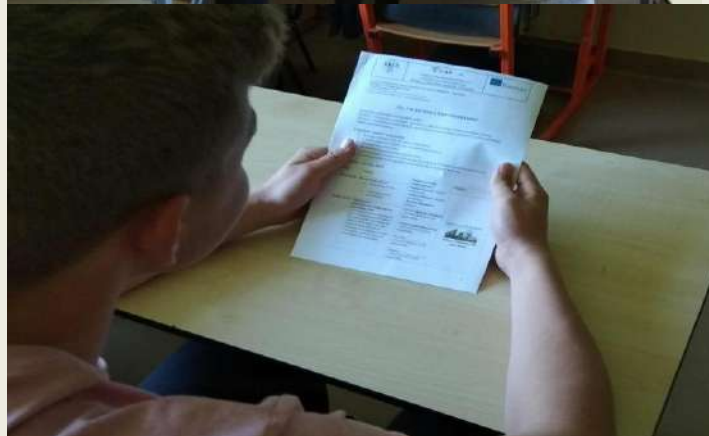## April 30-May 4, 2018 developing a motivational speech for a robot and presenting it to the teachers

Based on the SWOT analysis previously carried out, students developed a motivational speech. They used the SWOT analysis to identify a weak point so that it will be addressed as the problem they intend to solve with the robot they are going to build in future.

May 7-11, 2018 counselling other members of Robotics Club

The students who had participated in STEGP C1 meeting helped their fellows to elaborate the work breakdown structure (WBS) as well as determine the critical paths.

May 14-25, 2018 preparing for the second STEGP C2 meeting

The Host students and their parents assumed different responsibilities in preparation for the C2 transnational meeting in our school so that all of our guests would feel welcome.

SECOND STEGP_C2 LEARNING ACTIVITIES
May 28-June 1, 2018

Host school: Anykščių Jono Biliūno gimnazija (P2) Anykščiai, Lithuania

Participants: 28 students (7 students from Colegiul Național „Constantin Carabella" (P1) Târgoviște, Romania; 7 students from Anykščių Jono Biliūno gimnazija (P2) Anykščiai, Lithuania (P2); 7 students from Budapesti Gépészeti Szakképzési Centrum Szily Kálmán Müszaki Szakgimnáziuma, Szakközépiskolája és Kollégiuma, Budapest, Hungary (P3); 7 students from Istituto Istruzione Superiore „Alessandro Volta", Frosinone, Italy (P4)) and 4 accompanying teachers.

Trainers: Cătălin Oancea, Olimpia Oancea, Gabriel Milea - trainers and Microsoft SQL Server consultants, with nationally and internationally recognized skills, experienced in delivering Microsoft training solutions, BI product development and ICT outsourcing consulting; representative of partner SC SKA NET SRL, Bucharest, Romania

Topics of the learning activities: Critical thinking (definitions, its prominent features, three parts of critical thinking), Foreseeing impediments for critical thinking, Complex features of modern robots, Setting Robotics Clubs' work tasks and workshops for the future.

Description of the meeting: Attended by 28 students and 4 teachers from different schools, in the project, representing Hungary, Italy, Lithuania and Romania, the second STEGP meeting C2 was held by Anykščių Jono Biliūno gimnazija in Lithuania between May 28 and June 1, 2018. The meeting was primarily devoted to learning activities aimed at increasing the students' ability to think critically as one of the most significant skills that can be used throughout the whole process of building a robot to solve an existing problem. As well as that, the meeting helped students develop their digital and entrepreneurial competences relevant for their personal development and further education and career. As any other meeting, this was no exception either in that it provided the guests with a large range of activities meant both for their knowledge extension in the field of the project and cultural acquaintance with the host country of the meeting. Thus, both students and teachers were taken on a trip to the capital city of Vilnius, where they had an excellent opportunity to familiarize themselves with the robots constructed by students at the Robotics and Mechanical Engineering Faculty of Vilnius Gediminas Technical University. Short tours of the Old Town of Vilnius, Anykščiai and the Horse Museum in the village of Niūronys - all helped the guests get a glimpse of the Lithuanian historical and cultural heritage. Overall, the meeting in Lithuania brought together students, teachers and trainers having different cultural, economic, social and educational background and gave them the possibility to understand, work and respect each other and adapt to future learning or working in European contexts

Day 1

Day 2

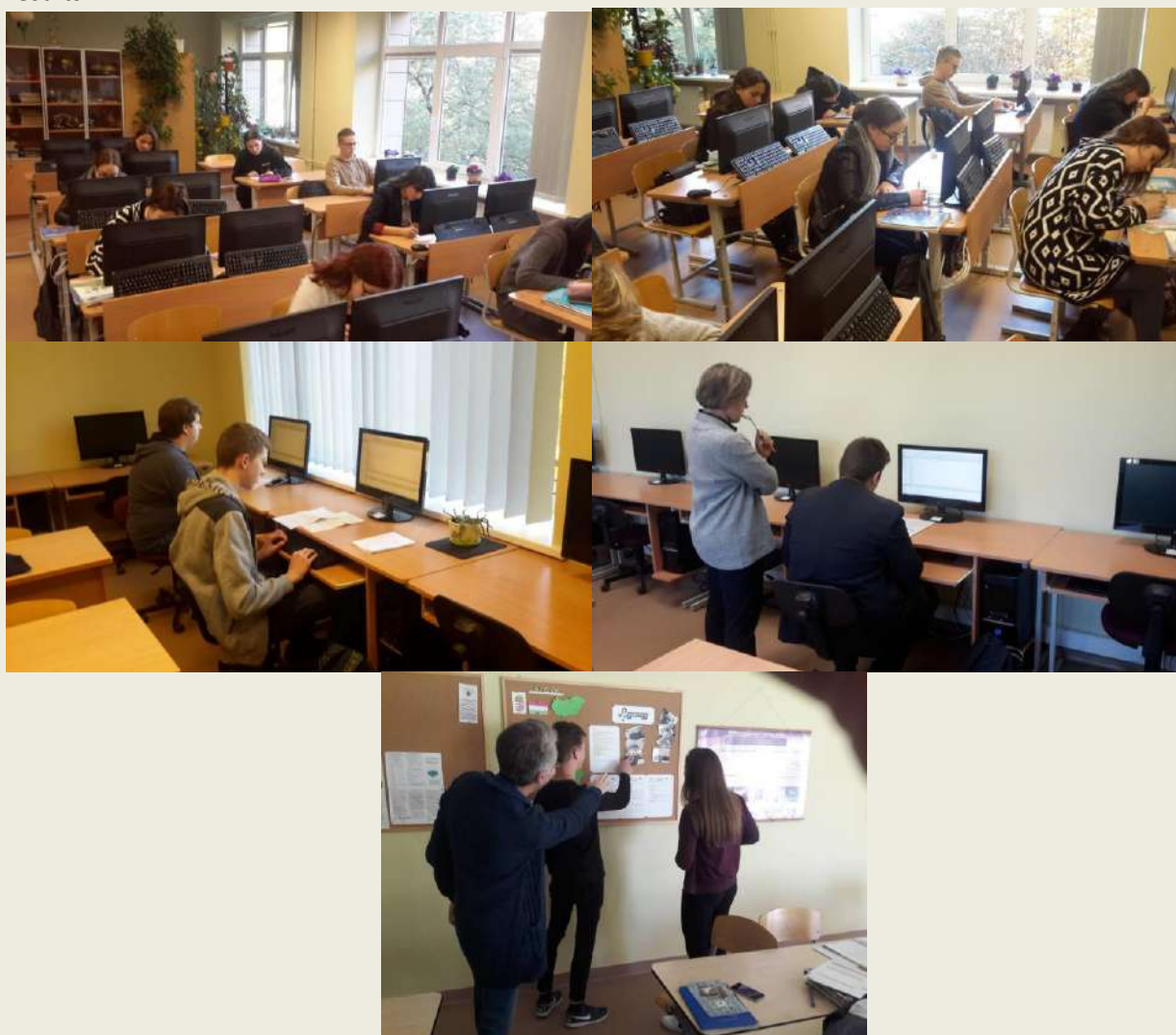**Day 3**

Day 4

Day 5

June 4-22, 2018 activities done before summer holidays

Students wrote an article for the dissemination of the Project activities done during the C2 STEGP meeting held in Anykščiai, Lithuania which they posted on the school website and the designed project panel.

Students who attended the training activities at the C2 STEGP meeting shared their gained experience and knowledge with the rest of the project target group members;

Students and teachers belonging to the Project target group summed up on and gave their evalution of the activities carried out so far in the project with a perspective of avoiding the faults and improving the results.

ROBOTICS CLUB ACTIVITY
July-August 2018

Students filled out the questionnaires on the O2 platform (https://roboticson.eu/) – O2/A4.1 activity meant for improving O2-modules 1.

Andrius Vitkūnas, P2 Coordinator
Dangyra Juodelienė, P2 Public Relation Responsible