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Strategic Partnerships for vocational  
education and training

# ROBOT@3DP PROJECT

NEW TRAINING RESOURCES FOR THE  
CHANGE OF THE INDUSTRIAL PARADIGM



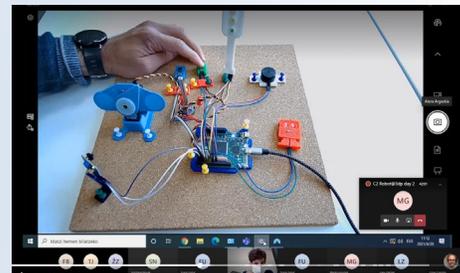
## ROBOT@3DP eLearning Platform.

The eLearning Platform being developed in the Robot@3DP project is in its testing phase and will be available at the end of the year so that both VET teachers and students or interested parties can be trained in the precepts of Industry 4.0, both in the concepts of 3D printing design and additive manufacturing, applied development of solutions based on Arduino and FPGA, as well as practical applications that bring together these technologies for the assembly of robots by students. Demonstrators are prepared and will be assembled by the students of the VET centres participating in the project in the last two short-term trainings foreseen.

It is also possible to follow the trainings carried out so far on this platform. The virtual format allows for recording and more than 30 training hours have been collected and are available on the Project eLearning Platform: <https://www.robot3dp.eu/elearning/>

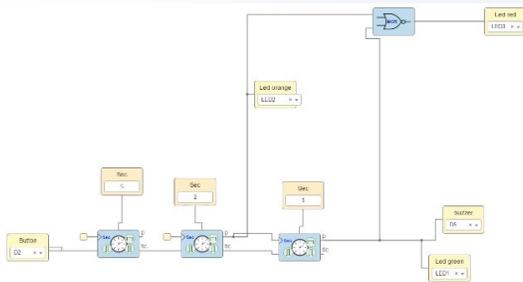
## 19 participants at the 2<sup>nd</sup> training.

The 2<sup>nd</sup> Short-Term Training with students of the Robot@3DP project carried out in virtual format for the COVID pandemic situation, on 19, 20 and 21 April 2021. This format allowed more students than expected to take part in the training. During the three days, expert representatives of the participating partners, as well as students and teachers from the Spanish vocational training (VET) centre Don Bosco (Errenteria) and the Slovenian VET Centre in Krsko shared experiences in the development and application of technologies, from design for 3D printing and additive manufacturing, basic robotics to the advanced use of FPGA and the precepts of Industry 4.0. During sessions of more than 5 hours, participants attended presentations by experts and solved question forms using the Kahoot! tool within a gamification to keep the motivation and attention of the participating students. In addition, students had to work in multidisciplinary teams to solve the proposed exercises and present their solutions to the other teams.



## Field Programmable Gate Arrays.

FPGA is the acronym for Field Programmable Gate Arrays and is nothing more than a series of semiconductor-based devices based on arrays of configurable logic blocks or CLBs, where they are also connected through what are known in the industry as programmable interconnects. Their main feature and advantage is that they can be reprogrammed for a specific job or change their requirements after they have been manufactured. This flexibility allows them to be applied in sectors such as: Aerospace; Audio; Automotive; Broadcast; Electronics; Data Centres; High Performance Computing; Industrial and Medical.



## Robot@3DP will be extended until March 2021.

The Spanish National Agency has accepted the proposal to extend the project until 30 March 2021. This is three months longer than initially planned. It is expected that this extra time will allow the completion of the planned project execution. Above all, it is expected that the 4th and 5th transnational meetings, as well as the 3rd and 4th short-term training can be held in person in Slovenia and Spain. These trainings involve the two VET centres in particular and it is intended that the students will be able to attend them in person, since the first two trainings have been held virtually, allowing to advance in the development of the project.

## Follow and contact us

You can follow our activities on the official project website:

<http://www.robot3dp.eu/>

Or the official project social media:

<https://www.facebook.com/robot3dp/>

@ROBOT3DPPROJEC1 robot3dpproject YouTube ROBOT@3DP Channel

To contact us by email: [natkosegui@aiju.es](mailto:natkosegui@aiju.es)

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