Project Partners

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Iasi, Romania

CAMIS Centre
Bucharest, Romania

MECB Ltd.
Iklin, Malta

Public institution Information Technologies Institute (ITI)
Kaunas, Lithuania

Centro de Formación Somorrostro
Muskiz, Spain

Danmar Computers
Rzeszow, Poland

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3DP
Training in 3D Printing To Foster EU Innovation & Creativity

Fostering Creativity and Innovation

Co-funded by the Erasmus+ Programme of the European Union

In this issue

Welcome

Welcome to the third edition of the 3DP project newsletter. This issue will disclose an update concerning the project outcomes, following the third meeting which was hosted in Poland. Furthermore this edition of the newsletter introduces another two partners participating in the project. These are: Danmar Computers from Poland and Information Technologies Institute from Lithuania. The success story in this issue outlines how 3D printing is being rapidly adopted by the aviation industry for during the design and maintenance of commercial aircraft.

Project Objectives

The project aims to give people the opportunity to develop their skills in 3D printing and to acquire the knowledge that allows them to activate in this field, like employee, entrepreneur, trainer, intermediary, etc. This is especially so in Vocational Education Training which needs to be strengthened with 3D printing related learning material. The project is therefore addressed to organizations, companies and persons interested to use or to support others to use the 3D printing revolution, in various domains: industry, art, entrepreneurship, intermediation, law, politics, finance, etc. The partners will develop a 3D printing curricula and courseware, a trainer guideline and an e-learning platform. They will be available in 6 languages (English, Spanish, Italian, Polish, Romanian and Lithuanian), free and open to all.

Meet the 3DP Partners

The 3DP project involves 9 partners from the Romania, Italy, Malta, Lithuania, Poland and Spain. This issue introduces two partners from Poland and Lithuania

Danmar Computers

Rzeszów, Poland

Danmar Computers is a private company operating in the field of Information Technology and providing vocational training in this field. Danmar Computers has an extensive experience in developing modern web and mobile applications intended for educational purposes. Our mission is the promotion of life-long education and assurance of equal access to education for everyone with the use of modern technology. We are also interested in Industry 4.0 and related areas. 3DP is our third project concerning 3D printing technology and its implementation in education. Danmar also has long-term experience of carrying out European projects and prepares training tailored for the needs of various learners.

Information Technologies Institute

Kaunas, Lithuania

Information Technologies Institute (ITI) is the official ECDL Foundation Sub-licensee for Lithuania. ITI has strong experience in IT training/testing courseware design and development. Currently the development and dissemination of computer literacy related training/testing systems have the major importance for the Institute. ITI has developed the *Automated ECDL Test System* which is authorised by the ECDL Foundation. In 2009 ITI has launched the ECDL Foundation Endorsed Partner Programme e-Guardian. Currently ITI is involved in development of Learning/Testing solutions for ECDL, CAD, security and safety subjects.

Success Story: 3D Printing in the Aviation Industry

In recent years, the market for additive manufacturing has expanded rapidly, with many industries, including aerospace adopting additive methods for creative product design, prototyping and maintenance. In the short term, additive manufacturing has proved successful at supporting the need for rapid prototyping during the design process. This allows engineers to check the physical behaviour of a design before production takes place, using specialised software to create a 3D model of the product and then print it. As well as reducing the weight of the parts themselves, 3D printing can cut waste by placing material only where it is required instead of having to machine it away from a solid block.

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3rd Project Meeting

The third 3DP Transnational Project Meeting of the 3DP project was held in Rzeszów, Poland between the 19th and 20th of October 2017. This meeting was hosted by the project partner Danmar Computers. Throughout out meeting the partners presented the tasks carried out since the last meeting which was held in Potenza, Italy.

A project outcome that was discussed during the project meeting concerned the development of 3D printing course. This courseware will be intended to enable employees, entrepreneurs and trainers to acquire knowledge that will enable them to exploit 3D printing technology.

As a follow up to this meeting, the project partner agreed that a short-term joint staff training will be held in Malta in January 2017.

Following the training event in Malta, the project partners have agreed that the fourth meeting will be held in Bucharest, Romania. This 3DP project meeting is planned for July 2018.

Furthermore this technology can help reduce the time for aircraft maintenance, as the needed parts can be printed directly in the aircraft maintenance facility. In order to cater for the accelerating adoption of 3D printed components in the aviation industry, the University of Sheffield is planning an advanced training facility. Within this facility aviation maintenance engineers will acquire knowledge concerning the use of technologies such as 3D printing and augmented reality in aircraft maintenance operations. This announcement was made a few months after Airbus announced the installation of the first titanium 3D printed bracket on a commercial Airbus A350 XWB.

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