

## **ROBOTS IN ACTION**

### **PROFESSIONAL CONTEST**

### **2021**

On June 4<sup>th</sup>, 2021, in order not to interrupt a tradition of almost fifteen years, students of the Faculty of Electrical Engineering, Electronics and Information Technology, from the “Valahia” University of Târgoviște, participated in the 14<sup>th</sup> edition of the Professional Competition "ROBOTS IN ACTION", which, like last year, took place online, using two video conferencing platforms, MS\_TEAMS and ZOOM, respectively.

The event was organized by our faculty, together with the Romanian Robotics Society, Târgoviște branch, and the Students' League. The students presented their applications, using live snapshots, demonstrations with personal works, but also small videos that best highlighted the practical, industrial, technical usefulness of their works.

A number of 23 practical applications were presented individually or in teams of students, distributed in four areas of interest, which have become common place in our competition: Robotics, Automation, Computer Science or Mechatronics.

In addition to our students, from the Automation, Bachelor and Master specialization, future engineers from the Polytechnic University of Bucharest, from the Faculties of Mechanical and Mechatronics Engineering or from Automation and Computers, were also present.

As we have become accustomed to in the last editions, images from the event could also be viewed through a LIVE broadcast of the event, at the following addresses: <http://www.robotics-society.ro/filiale.html>, <http://www.srr.ssai.valahia.ro>, but also on our own YouTube channel.

At the current edition, the 14<sup>th</sup>, attracted the attention some of technical-engineering works, such as Design and simulation of an assembly line using Robot Studio, Application for data collection and processing on an automated manufacturing line in the food industry, Monitoring and control of an intelligent greenhouse via IoT, Intelligent algorithms, used in the implementation of quality control on an assembly line, Modeling simulation and real-time management of simultaneous assembly in flow and CFF on a manufacturing line, Wirelessly controlled mobile robot, Detection and diagnosis system for limiting the spread of viruses, Making a game in Unity 3D, Automatic control of a massage table, Design and control of a SCARA type IR with 5 DOF, Design and implementation of a network of IoT devices, Bending machine, Optimizing coffee roasting using fuzzy techniques, Appolo Project - Automatic artificial ventilation, Maltese cross mechanism with 2 drive bolts that have an adjustable relative angular position or a 3D printer with an extra-controlled “diamond” type extruder to obtain a possible shade from the combination of filaments of 3 different colors.

And this time we offered the possibility to the pupils from the Children's Palace who, from a distance, looked at what the students had achieved. As usual, we also had representatives of the industrial, administrative and business environment from Dâmbovița County and the Region, many of the participants being invited for interviews for further employment.

After the event, prizes and diplomas were awarded to all participants.

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## - ROBOTIC / MECHATRONIC APPLICATIONS -

