

RESEARCH IN THE DEVELOPMENT AND IMPROVEMENT OF AUTOMATED TESTING SYSTEMS USING LABVIEW, LABWINDOWS/CVI AND TESTSTAND

Goal of the project

Carrying out project execution services entitled "Research in the Development and Improvement of Automated Testing Systems using LabVIEW, LabWindows/CVI and TestStand". Technical consultancy activity in the field of automated testing systems.

Short description of the project

Design, development of automated testing systems.

Implementation period

15.03.2019 – 15.07.2019

Main activities

The following were achieved:

- automatic testing programs;
- programs, which were based on event scheduling;
- handling program errors;
- graphical interfaces for automatic testing programs of electronic circuits;
- programming of DAQmx type acquisition boards;
- programming of test equipment on different communication interfaces;
- distribution of the application by generating installation packages.

Results

- New programming techniques have been implemented for testing electronic circuits and programmable measurement and control equipment has been interfaced with computer systems.
- Threads have been implemented for automated testing programs and multi-core programming for testing systems has also been achieved.
- New automated testing techniques were used, such as: boundary scan, ICT and functional testing.

Applicability and transferability of the results

The results are used in the Honeywell Life Safety Romania S.R.L. plant from Lugoj, Timis country, Romania.

All the test systems and test programs are implemented and used for testing many electric circuits fabricated in the plant.

Research Centre

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