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OFICIUL DE STAT PENTRU INVENȚII ȘI MĂRCI

BREVET DE INVENȚIE

Nr. 133736

Acordat în temeiul Legii nr.64/1991 privind brevetele de invenție, republicată în Monitorul Oficial al României, Partea I, nr.613, din 19 august 2014.

Titular: ACCENTURE GLOBAL SOLUTIONS LIMITED, DUBLIN 4, IE;
UNIVERSITATEA TEHNICĂ DIN CLUJ-NAPOCA, CLUJ-NAPOCA,
CJ, RO

Titlul invenției: METODĂ DE VIZUALIZARE A TRASEULUI UNUI VEHICUL
AUTONOM FOLOSIND REALITATE AUGMENTATĂ

Inventatori: MILITARU CRISTIAN, CLUJ-NAPOCA, CJ, RO; TAMAS
LEVENTE, CLUJ-NAPOCA, RO, RO; TOFALVI LASZLO,
CLUJ-NAPOCA, CJ, RO

Descrierea invenției, revendicările și desenele la care se face referință în acestea, fac parte integrantă din prezentul brevet de invenție.

Durata brevetului de invenție este de 20 ani, cu începere de la data de 24/05/2018, cu condiția plății taxelor anuale de menținere în vigoare a brevetului.

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sensors

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"Novel Sensors and Algorithms for Outdoor Mobile Robot"

Dr. Levente Tamás

Automation Department, Technical University of Cluj-Napoca, Cluj-Napoca 400114, Romania



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Region-Based Pose and Homography Estimation for Central Cameras

Ph.D. Thesis

by

Robert Frohlich

Supervisor:

Prof. Zoltan Kato

External Consultant:

Dr. Levente Tamas

Doctoral School of Computer Science

Institute of Informatics

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2019

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Applied Research Accelerator Program

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Research Team  Offline

Activities Chromium Web Browser 12 Oct 22:37 5°C IT Days 2019 - Chromium

IT Days 2019 2019.itdays.ro/schedule

ITdays AGENDA SPEAKERS PARTNERS WORKSHOPS CONTACT OTHER EDITIONS ▼

11:00	How to shape the future as a leader Dennis Raabe <i>Bosch</i>	A story about blockchain and consensus Ovidiu Deac <i>Ed-IT.ro</i>	Solutions for Autonomous Driving at Technical University of Cluj-Napoca prof. Sergiu Nedevschi <i>Technical University of Cluj-Napoca</i>	Gibbous game - programming meets Art Cămpian Nicolae <i>Reea.net</i>	SQL processing in Apache Spark Tudor Lăpușan
11:30	Leadership in Development Christopher Lederer <i>Flow Traders</i>		Mobile and Virtual Therapy Assoc. Prof. Rareș Florin Boian, PhD <i>Babeș-Bolyai University Cluj-Napoca</i>	MVVM is not an architecture Mihai Mecea <i>Gemini Solutions</i>	
12:00	Why an Exit should be a new beginning and not an ending? Bogdan Herea <i>Pitech+Plus</i>	Understanding Stream Processing Joseph Bartok <i>Hazelcast</i>	What's next in artificial intelligence? Răzvan Florian <i>Romanian Institute of Science and Technology</i>	Navigation apps and how an SDK is built Nobert Fodor <i>Telenav</i>	
12:30	Reinvent the IT with Azure Radu Vunvulea <i>Microsoft</i>	Fast and Light Java. Possible? Daniel Jecan <i>Jpard</i>	Industry-Academy Collaboration Levente Tamas <i>Technical University of Cluj-Napoca</i>	Working with people is the Art, a Servant Leader is the Canvas on which you can see the masterpiece Valeria Chiriac	
13:00	Lunch Break 				
14:00	What I've learned about software development from the ancient Greeks Mark Seemann <i>Programmer and Software Architect</i>				
14:30					
15:00	Coffee & Networking Break 				
	Panel Conference hall, ground floor	AI Europa room, 3 rd floor	Automotive Studio room	Hands on labs Room 32, 3 rd floor	Workshops Small room



Search

Pinhole camera image

- ✓ straight line
- ✗ size
- ✗ parallelism/angle
- shape
- shape of planes
- depth

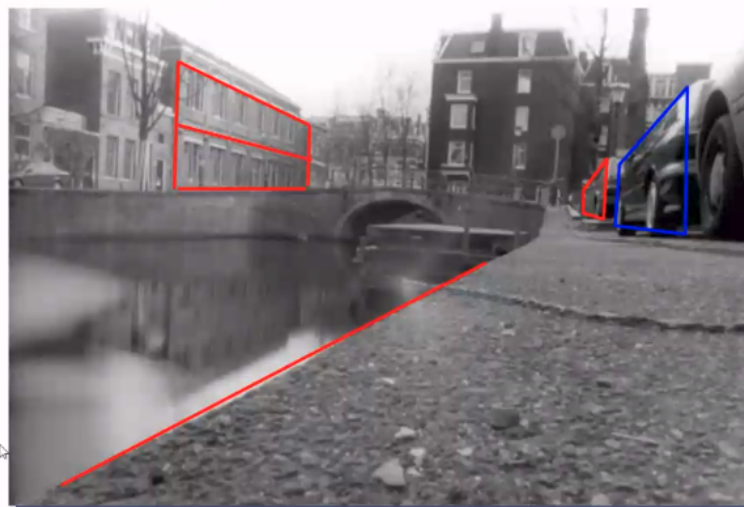


Photo by Robert Kosara, robert@kosara.net
<http://www.kosara.net/gallery/pinholeamsterdam/pic01.html>

Zoltan Kato (Guest)

Slide adopted from Zhigang Zhu Computer Vision - CSC 16716

People

Invite someone

Currently in this meeting (32)

Mute all

- Levente Tamas
Organizer
- AP Alexandru Pop
- Alin - Paul Voicu
- A Ana - Cristina Valcean
- Andrea - Mariana Bud
- AB Andreea Bodea
- AM Andreea Roxana Maier
- Andrei Bacs
- A Arthur - William Iakkel
- Attila Vass
- Bianca Claudia Chiorean
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- CP Calin Pop

Suggestions (2)

+24

AM

M

ZK

BK

Zoltan Kato (Guest) ...

Bianca Claudia Chior...

Odette Kelenyi

Kelenyi, Benjamin

**A KÉPAF 2019 Konferencia Hivatalos honlapja ITT
(<http://kepaf.njszt.hu/kepaf2019/>) elérhető.
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(<http://kepaf.njszt.hu>)

- **Csoportos BUD-TGM repülőjáratra jelentkezés ([utazas.html](#)) 2016.10.15-ig.**
- Cikk-beküldési határidő: **2016.10.23.** Figyelem: a Kuba A. díjra ([kuba.html](#)) ill. PhD díjra ([phd.html](#)) pályázókra más határidők vonatkoznak.
- Technikai bemutatók beküldési határidő: **2016.10.23.**
- Értesítés az elfogadásról: 2016.12.01
- Válasz a bírálatokra: 2016.12.12
- Camera ready határidő: 2017.01.08
- Regisztráció és fizetés: 2017.01.08
- Konferencia: 2017.01.24 - 2017.01.27

Felhívás

magyar ([kepaf17_HU_callforentries.pdf](#)), angol ([kepaf17_EN_callforentries.pdf](#))

Történet

A KÉPAF konferenciák korábbi helyszínei ([helyszínek.html](#))

Technikai bemutatók

A szakterület ipari fejlesztéseiben tevékenykedő cégek és intézmények részére ([bővebben](#)) ([technikai.html](#))

Információk előadóknak

([bővebben](#)) ([eloadoknak.html](#))

Kuba Attila Díj

Fiatalkutatóknak ([bővebben](#)) ([kuba.html](#))

PhD Díj

Posztdoktori kutatóknak ([bővebben](#)) ([phd.html](#))

A konferencia programja

- Programterv (KEPAF2017Program.pdf) - beosztás, órarend
- Részletes programfüzet (KEPAF2017Programfuzet.pdf)
- Elfogadott cikkek listája ([cikklista.html](#))

Hírek

Elérhető a konferencia programja (KEPAF2017Program.pdf) és a részletes programfüzet (KEPAF2017Programfuzet.pdf).

2017.01.20.

<< >>

Támogatóink:

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- Tamás Levente (<http://rrg.utcluj.ro/~levente/>) (KME)

THE STUDY OF THE DOUBLE ACTING CYLINDER WITH ELECTRIC VALVE CONTROL

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1. Introduction

This laboratory focuses on the study of the double acting DSNU-20-30-PPS-A type cylinder produced by Festo. This double acting pneumatic actuator has dual connection ports for compressed air to be applied for advancing and retracting the piston rod in a linear motion. The self-adjusting speed limiters give a gentle and dynamic travel into the end position, even with changing loads and speeds. Equipped with a special extension to the main piston the design controls venting of the air cushion that has built up, as a result, no adjusting screw is necessary.

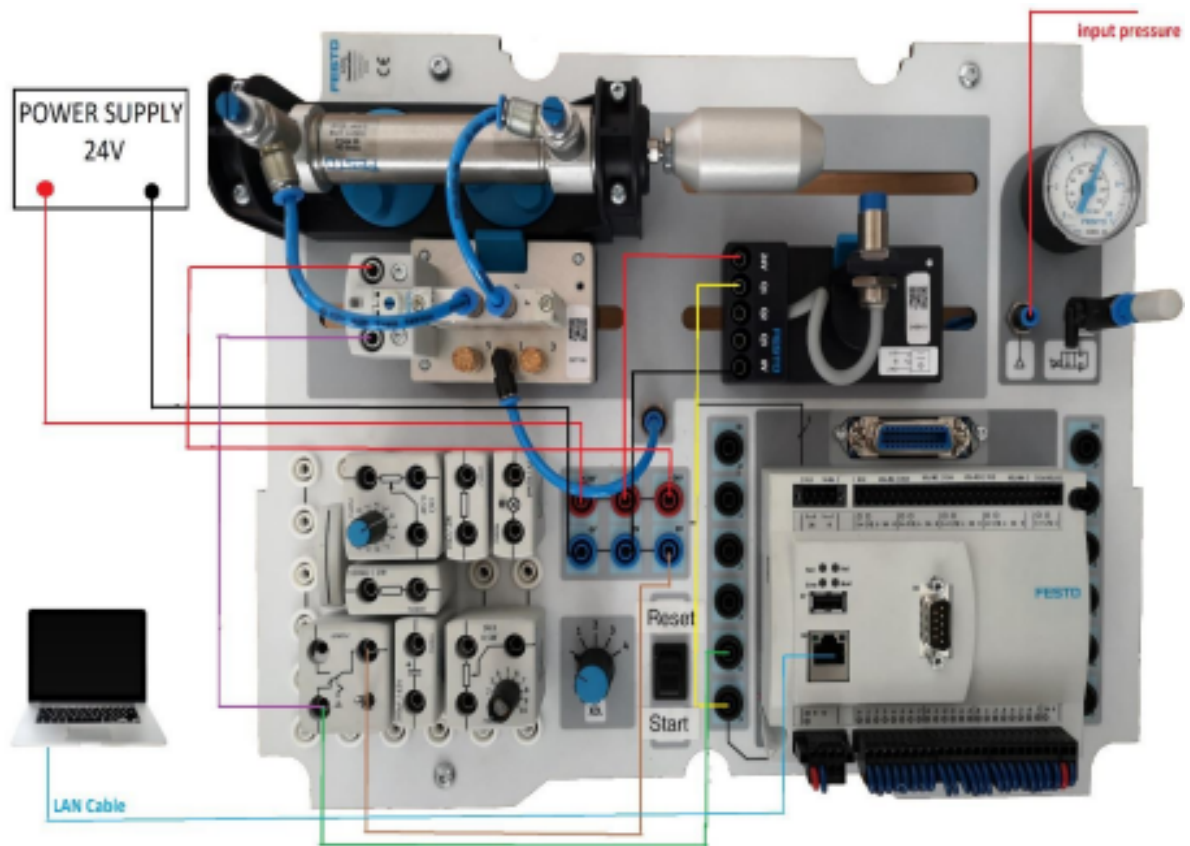
2. Software requirements

To be able to understand the functioning of this cylinder, respectively to solve the laboratory proposed exercises, the following applications or packages are needed:

1. CODESYS → <https://www.codesys.com/download.html> (V3.6 SP16 Patch 4 32 BIT)
2. FESTO FIELD DEVICE TOOL → <https://www.festo.com>
3. CECC PACKAGE FOR CODESYS → <https://www.festo.com>

3. Connection diagram

The connection diagram is shown in the figure below:

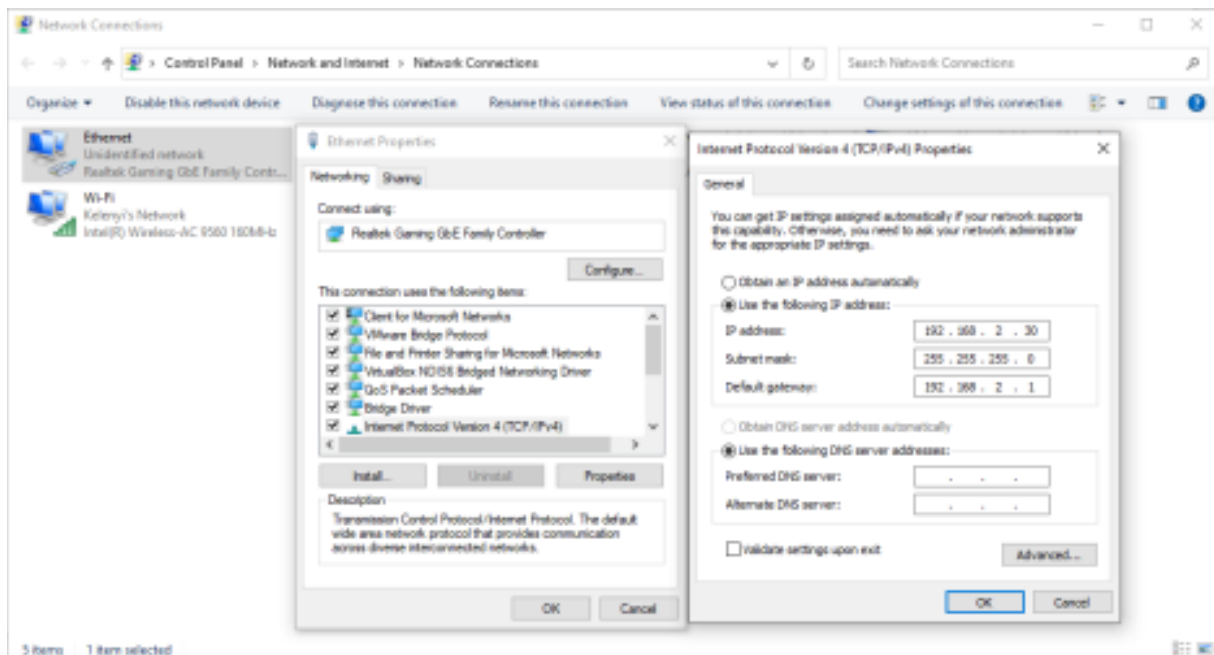


3

4. Network connection settings

In order to communicate with the CECC-LK microcontroller, the following settings are required on the Ethernet port:

ip address: 192.168.2.30
subnet mask: 255.255.255.0
default gateway: 192.168.2.1

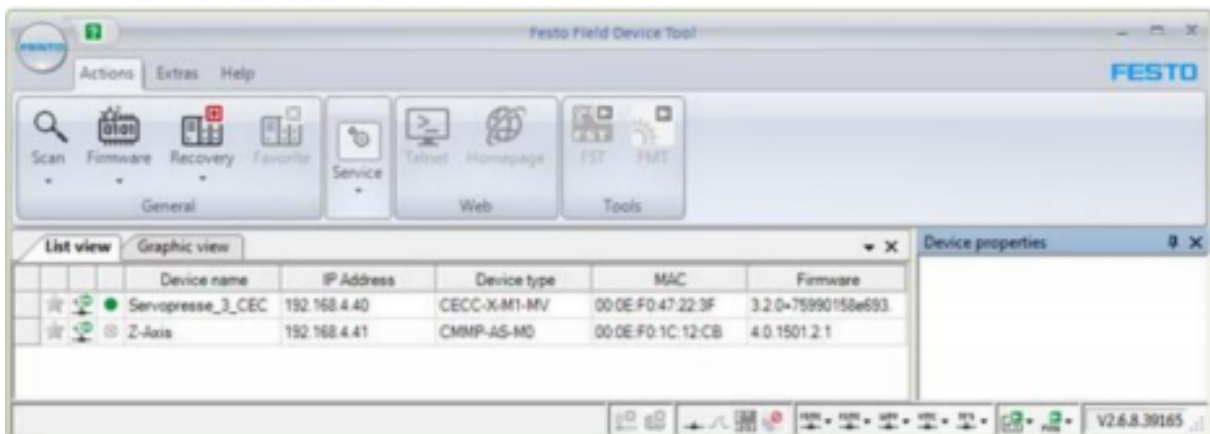


4.1 Check target communication

To verify that communication with the microcontroller CECC-LK is possible, the FFD (FESTO FIELD DEVICE) program must be used:

The Festo Device Tool (FFT) is available in the Support Portal → www.festo.com/sp.

- Open the Festo Field Device Tool (FFT).



5. Commissioning

5.1 Preparations



Administrator rights are required to install the CODESYS V3 pbF programming software on your PC.

1. Install the CODESYS V3 pbF programming software on the PC used to commission, configure and program the CECC.
2. Install required packages (CECC) if necessary. To do this, open the Package Manager in Codesys using the [Package Manager] command in the [Tools] menu.
3. After the last package is installed, restart Codesys to be able to use the modified plug-ins.
4. Connect the PC to the CECC directly via the Ethernet interface or indirectly via a switch/hub.

5.2 Getting started

- Launch CODESYS V3 pbF. You will find the program on your Windows PC in the Start menu directory [Programs] [Festo Software] [CODESYS V3].

5.2.1 Creating a project

- Create a new project ([File] [New Project...]), enter a name and the storage location and confirm your entries by clicking "OK".

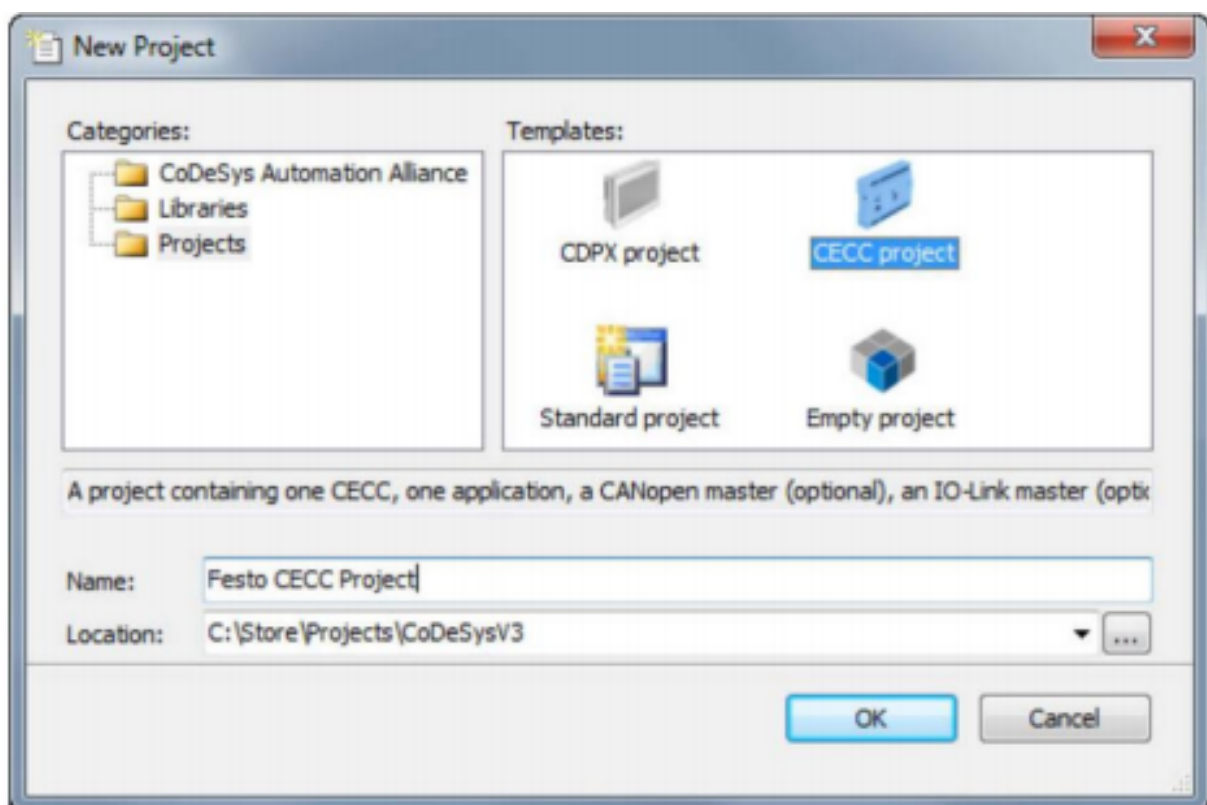


Figure: "New Project" dialog

5.2.2 Selecting a device

1. Select the relevant device in the "CECC Project" dialog.
 - Check the "Show all device versions" box for an extended selection of older device variants. The respective version of the relevant device description file is appended to the name of the selected device.

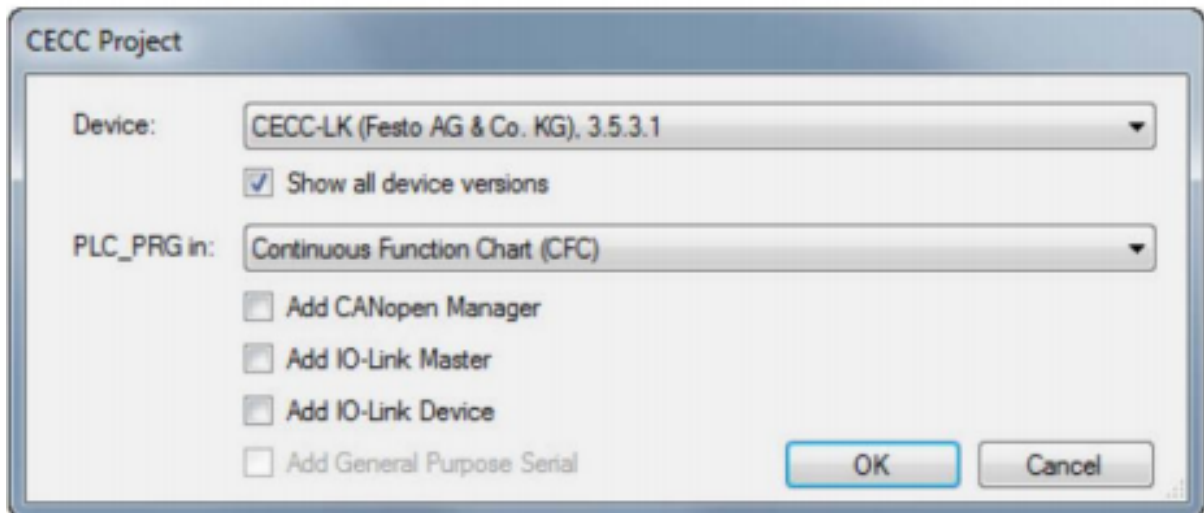


Figure: "New Project" dialog – selecting the device

2. Select a programming language, e.g. structured text (ST).
3. Select the relevant interfaces.

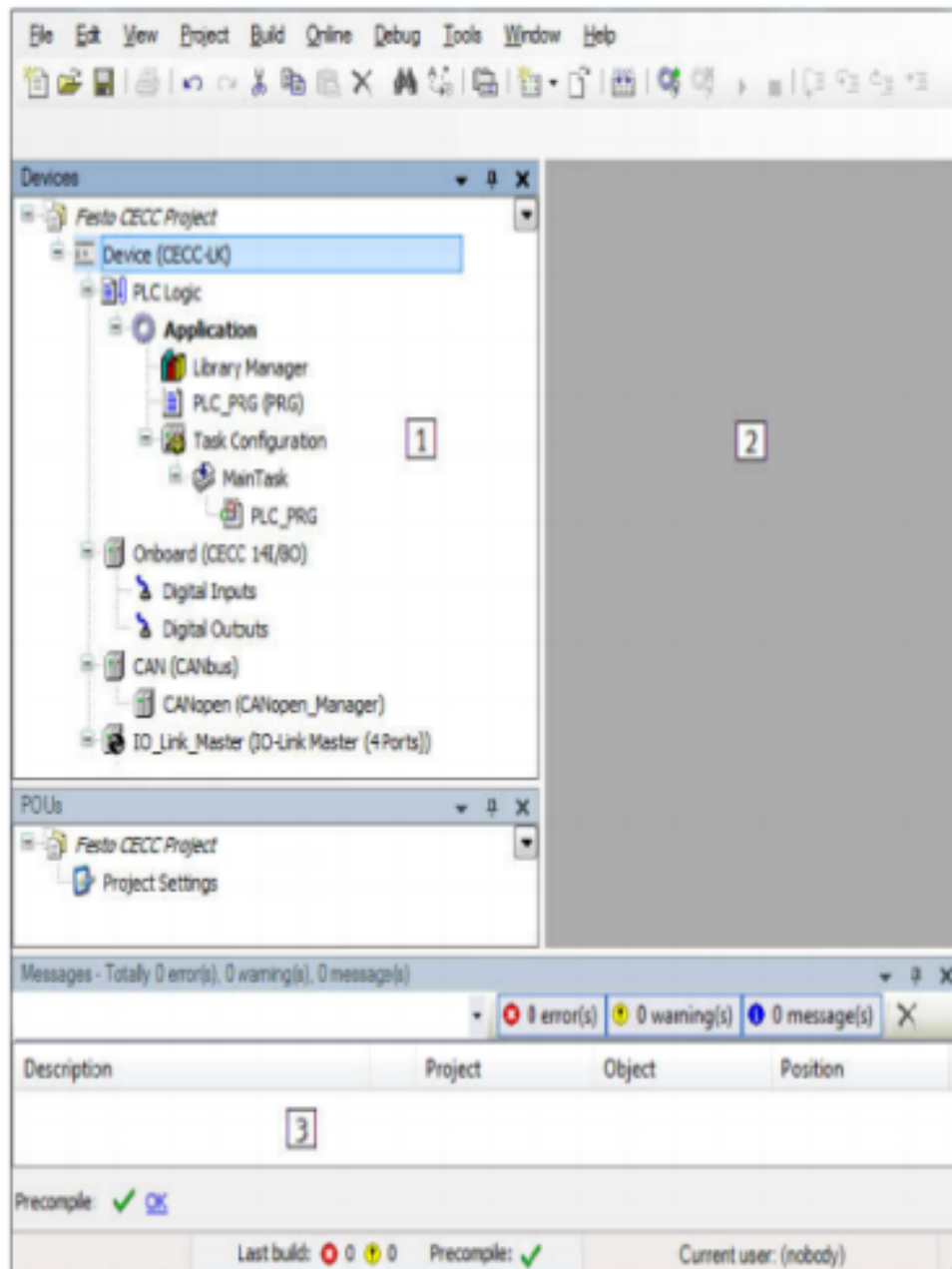


Figure: "New Project" dialog – selecting the interfaces



Options not supported by the respective device are inactive (shown in grey) and cannot be selected.

The CODESYS V3 pbF program window opens with the newly created project.



1 Device window with CECC, its interfaces and PLC logic

2 Editing window with tabs for the objects activated in the device window

3 Message window with information about the CECC as well as error messages and warnings

Figure: CODESYS V3 pbF program window with selected CECC

1. Double-click the device to be configured in the device window.
The "Device" tab for making settings for the device opens in the editing window.
The following information and setting options can be found in the sub-tab for the device:

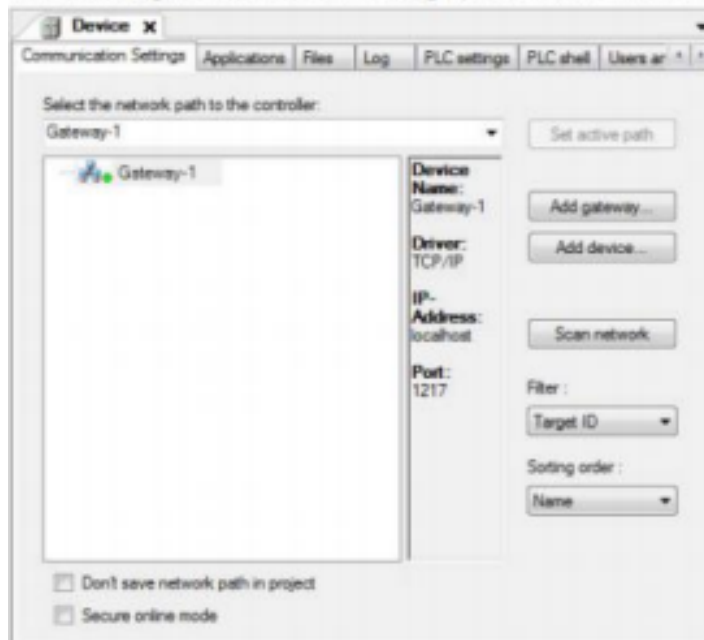


Figure: "Device" tab for CECC-...

2. Open the "Communication Settings" tab and highlight the local gateway (network path).
3. Click the "Scan network" button or double-click the highlighted gateway to add an updated list of devices to the local gateway.
 - If necessary, set the filter to "Target ID". Only devices that match the CECC currently used in the project will then be displayed (→ section "Selecting a device").
 - If necessary, change the sorting sequence to alter how the devices are displayed in the updated list.
 - Manually select a device if you know the name, node address or IP address of the CECC (→ section "Manually adding a device").
 - If necessary, change the network settings for the device (→ section "Scan Festo Devices") and repeat step 3. Changing the settings adds the device to the local gateway.



The list only contains devices that match the following criteria:

- The subnet mask settings for the network connection and CECC are the same
- The IP address settings for the network connection and CECC match

If these criteria are **not** met, the device must be detected using the Festo scan program (→ section "Scan Festo Devices"). The network settings for the device can be read out in the scan program and changed to suit your company network.

You need a communication channel to exchange data with the connected CECC.

- Highlight the desired device and click the "Set active path" button or double-click the highlighted device.

The currently active path is shown in bold in the list and "(active)" is appended to the name.

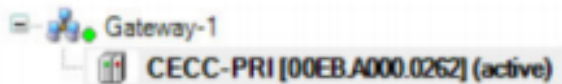


Figure: Activated device

5.2.5 Adding a CECC as a gateway

You can add a CECC as a gateway to extend the network. By doing so you extend the network by the subnet via which the CECC can be connected.

1. Click the "Add gateway..." button.
The "Gateway" dialog opens.



Figure: Gateway dialog

2. Enter a name for the new gateway in the input field.
3. Enter the known IP address for the relevant CECC.
4. Confirm your entries with "OK".
5. Repeat step 3 from the section "Adding a device" to add an updated list of devices to the CECC gateway (→ section "Getting started").

If all the settings mentioned above have been done correctly, we now have the microcontroller connected to our computer and we are ready to program the microcontroller.

6. How to program the microcontroller

6.1 Online mode



Caution

Risk of injury due to uncontrolled movements of the connected actuators.

- Test projects and programs without active actuators initially.

A configured project including program (CECC application) is to be transferred to the CECC. Online mode must be activated for transfer, i.e. CODESYS V3 pbF must be "logged in" on the CECC.

6.2 Login



Use one of the following commands for login:

- Click the icon in the toolbar of the Codesys program window
- Menu command [Online] [Login]
- Shortcut ALT+F8

Once online mode is active, the connection to the CECC as well as the application are highlighted in green in the device window. The CECC is online, the application is not started (not running), the "Run" status LED lights up yellow.

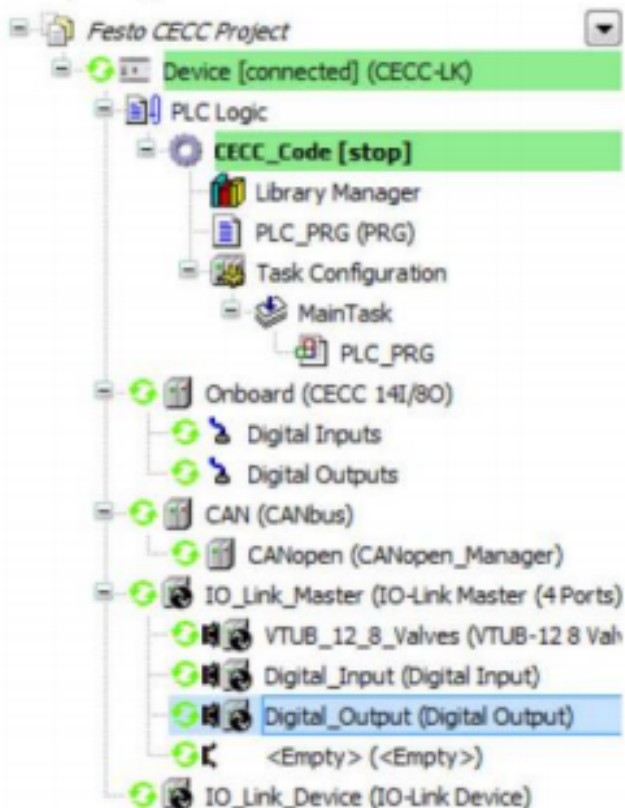


Figure: Device window with CECC logged in

6.3 Monitoring the input/output ports

ROYAL ACADEMY OF ENGINEERING LEADERS IN INNOVATION FIELD PROGRAM

Cluj-Napoca, 28th of September 2022

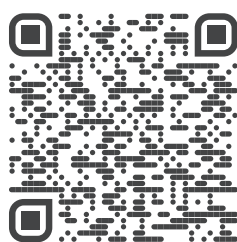
The LIF programme brings together emerging leaders who have an engineering-based innovation that could contribute to the social and economic development of their country through commercialisation.

MEETING SESSIONS

Morning session from 10:00

From labs to start-ups

Str. Constantin Daicoviciu nr. 15,
Cluj-Napoca, Aula Domsa



Afternoon session from 14:00

Regional Eco-system

Central park of Cluj-Napoca,
Casino building

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Levente TAMÁS, PhD
Automation Department
Technical University of Cluj-Napoca
E-mail: Levente.Tamas@aut.utcluj.ro

Subject: Invitation

Dear Levente TAMÁS,

Hereby I kindly invite you to the Faculty of Information Technology and Bionics of Pázmány Péter Catholic University for the period of 21-22 December 2020 to hold a guest lecture (block course) for the 3rd EMJMD cohort of Image Processing and Computer Vision MSc students, under the title

3D Vision

The costs of your travel, accommodation, as well as your honorarium will be covered by the IPCV Consortium, upon successful application to the IPCV guest scholar program.

Budapest, 1 December 2020

Sincerely yours,

Dr. KARACS Kristóf

Vice Dean for General and International Affairs
Head of the IPCV program at PPCU



News

MTDK 2021

Pictures taken at the event can be viewed [here](#) .

RESULTS

1st place and OTDK labeling - Purple Boga (RO BBTE), hydrothermal synthesis of CaTiO₃ and optimization of its photocatalytic performance using statistical models

Leading teachers: Dr. Mircea-Vasile Cristea, Professor István Székely, Dr. Zsolt Pap

1st place and OTDK marking - Szilárd Molnár (RO KME), ToFNest: Efficient orthogonal calculation for depth images from time-of-flight type cameras

lead teacher: Dr. Tamás Levente, associate professor

II. placement and OTDK marking - Balazs Bustya, Attila Hammas (RO EMTE), Framework for neural network FPGA based implementation

lead teacher: Dr. Sándor Tihamér Brassai, associate professor

II. positioning and OTDK marking - Norbert Hodgyai (RO EMTE) , Comparison of load capacity of gear-modified and classically designed gears

lead teacher: Dr. Márton Máté, associate professor

III. placement and OTDK marking - Norbert Kertész (RO KME), Battery monitoring system interface development for sb-RIO 9636 system

lead professor : Dr. Lóránd Szabó, university professor

III. position - Zátyi Tibor-Botond (RO EMTE), Design and construction of inclined screw conveyor

lead teacher: Dr. Gergely Attila-Levente assistant professor

CALL

XXII. Transylvanian Technical Scientific Student Conference

6 to 8 May 2021 .

The Timișoara Hungarian Student Organization (TMD) and the Student Self-Government of the Faculty of Târgu Mureș (MSHÖK) of Sapientia EMTE announce the XXII. Transylvanian Technical Scientific Student Conference (MTDK 2021). The aim of the conference is to encourage student academic student activity and to provide a space for students to present their work. We are waiting for the application of those students who, in addition to continuing their studies, carry out scientific activities in the field of technology for the purpose of self-study, and include the results in a high-quality dissertation (in Hungarian or English). At the conference, the entries will be presented in Hungarian. The content and form requirements of the dissertations to be submitted are the same as the requirements of the technical section of the OTDK.

Attention! A XXII. A Hungarian participant from the Transylvanian Technical Scientific Student Conference cannot be delegated to the OTDK.


A XXII. Planned sections of the Transylvanian Technical Scientific Student Conference (MTDK 2021):

1. Automation and applied informatics
2. Electrical engineering
3. Mechanical engineering
4. Civil Engineer and Architect
5. Chemical engineering
6. Light industry engineering
7. Poster session (for high school and first year students)

Attention! Based on the topic of the received dissertations, the planned departments may be modified or new departments may be started.

Important dates:

- Pre-registration: ~~March 20,~~ **2021 April 10, 2021**
- Extract submission: **April 10, 2021**
- Application submission: **April 25, 2021**
- The date of the conference is **May 6-8, 2021** .

The official Facebook page of MTDK: 

The MTDK poster is available [here](#) .

We welcome all applicants and interested parties to the conference!

Organizing Committee of MTDK

