

Continental 
The Future in Motion

Continental alături de tine în Facultate

4-15 Noiembrie



Aplicatii practice și sesiuni tehnice live
Q&A alături de specialiști în domeniul tău de studiu
Orientare în carieră împreună cu HR-ul Continental



Sesiunile de interes pentru tine: pot fi una sau toate.
Tu alegi unde participi

Participarea ta este importantă pentru noi. Confirmă
la biroul departamentului pentru a ne putea pregăti
pentru tine

Participă cât îți permite timpul. Nu ești obligat să
rămâi la toată sesiunea

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ORIENTARE ÎN CARIERĂ ALĂTURI DE HR-UL CONTINENTAL

Vom dezbate cu exemple și simulări următoarele
subiecte și nu numai:

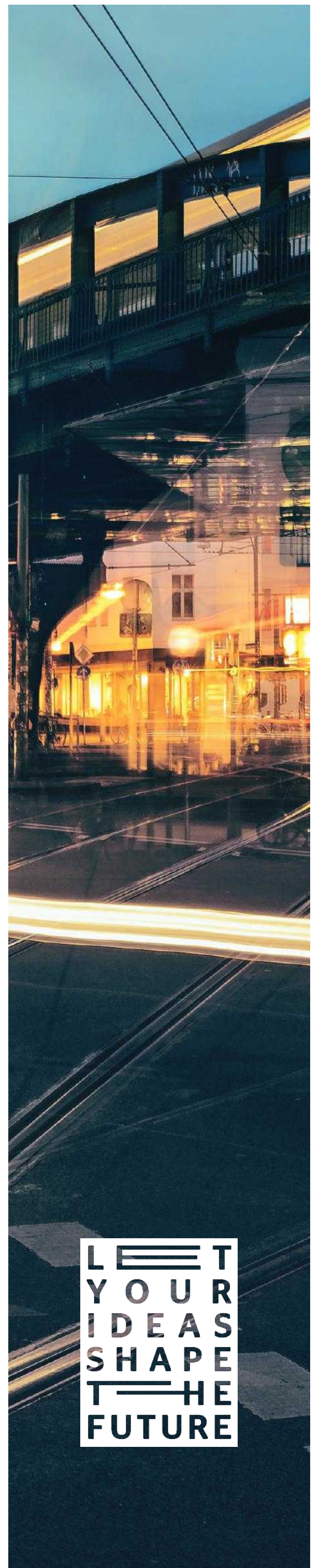
- cum îți construiești un CV
- unde și când e cel mai bine să aplici
- simulări de interviuri
- cum îți negociezi salariul
- primii pași la locul de muncă
- evaluarea activității tale ca angajat
- tips&tricks în relația cu angajatorul



Sesiunea - Luni, 4 Nov

IE 101 15:00 - 17:00

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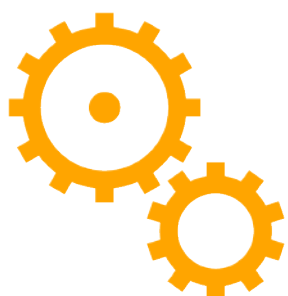
ASSISTED DRIVING AUTOSAR PLAYGROUND

This project presents the automotive radar concept using Arduino with RGB LED strip and ultrasonic sensor assembly.

You will learn how to write code, creating from scratch an automotive software, respecting AUTOSAR architecture guidelines and MISRA coding rules.

What we use? Programming C, uC low level drivers, Architecture Design, sonar driver, RGB LED strip driver.

Sesiunea 1 - Marti, 12 Nov	IM 413	13:00 - 15:00
Sesiunea 2 - Miercuri, 13 Nov	IM 413	13:00 - 16:00
Sesiunea 3 - Joi, 14 Nov	IM 413	13:00 - 15:00
Sesiunea 4 - Vineri, 15 Nov	IM 413	14:00 - 16:00



Recomandăm să încerci să participi la toate sesiunile, fiecare având legătură una cu cealaltă.



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NETWORK DEVICES AND SEAT CONTROL



Focus: Network Devices and
Seat Control

Product: Brake Lights, Hazzard
Lights, Head Lights, Blinkers,
Seat

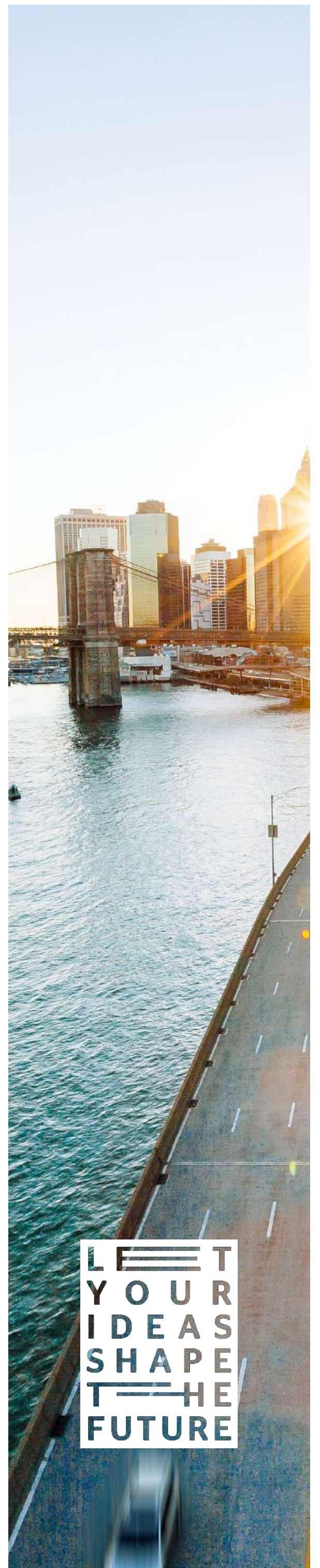
Software tool: CANoe

Subjects: Test Specification based on requirements,
Live testing using real products integrated in a
simulated environment, CAPL programming, Automatic
test scripts

Sesiune - Joi, 7 Nov

IE101 14:00 - 17:00

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PRINCIPII IN TESTAREA SOFTWARE

Principii de baza in Testarea Software, dezvoltarea unui mediu de testare bazat pe requirements

Test design si automatizari , implementarea unor solutii Software de testare a senzorilor de camera (Multifunctional Camera) folosind mediul de testare Vector CANoe pentru protocolul de CAN (Controller Area Network)



Implementarea , adaptarea si imbunatatirea scripturilor de testare

Abilitati profesionale dobandite in domeniul de Testare Software din Conti

Sesiune - Vineri, 15 Nov

IM323 14:00 - 17:00

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ELECTRICAL ENGINEERING FOR SAFETY

Short presentation on the topic of electronic design with emphasis on safety, as performed for Electronic Brake Systems.




It will include general considerations on the subjects of functionality, calculations, simulations, failures, manufacturability, testability, software, integration and compatibility.

Each subject will be described in the context of safety-relevant consumer products, sticking as close as possible to real-world examples and practices. Attendees can ask questions and get as in-depth answers as they want, hopefully giving some useful insights for their own studies and projects.

Sesiune - Marti, 12 Nov

IM302 14:00 - 17:00



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FINITE ELEMENT ANALYSIS HIGH PERFORMANCE COMPUTING



High performance computing - calculations for fluid flow in braking components in the development and pre-prototype phase

Finite element analysis of fluid flow, fluid dynamics in brake components, noise estimations with Ansys CFX

Flow resistance calculations for cost optimization of pumps with Ansys CFX

Usage of graphics processing units (GPUs) for calculating fluid flow on discrete geometries with elements of the order of 100-500 millions

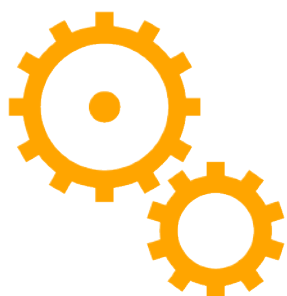
Developed software at Continental Sibiu for advanced computational fluid dynamics of braking components

Sesiunea 1 - Miercuri, 6 Nov

IE 101 14:00 - 16:00

Sesiunea 2 - Joi, 7 Nov

IE 101 14:00 - 17:00



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U.R. - FROM ZERO TO HERO!

At Continental, we constantly strive to make the advantages of using collaborative robots (cobots) in the workplace accessible to all.

With this workshop, we are trying to lower the automation barrier by making core programming skills available to future employees regardless of their robotics experience or backgrounds. Join this workshop now and let the journey into automation begin!

What you'll learn:



- **First look:**

The robot at a glance. A short introduction to the robot, user interface, I/Os and functions.

- **Use Case**

We will find a use case for the robot.

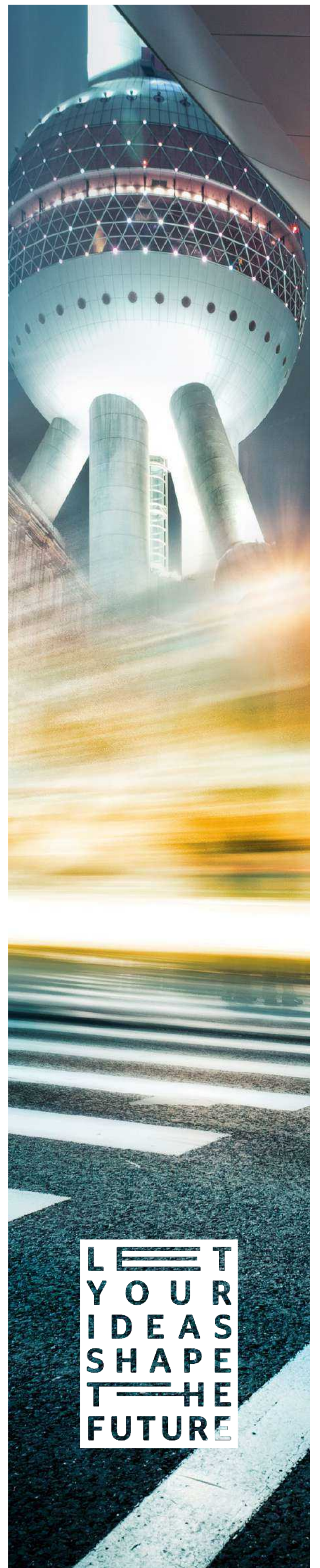
- **Creating a program**

Robot motion types. Program all the motions and waypoints needed for the use case.

- **Interaction with external devices**

Learn how to interact with sensors, and how to change the payload by using set and wait commands needed for the use case application.

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CYBERSECURITY

LIVE - PENETRATION

TESTING

This is a live session/demonstration showing the methodology for identifying and exploiting the weaknesses of a system accessible via network. There will be no theoretical part.

The session will be running mostly in a linux terminal + additional linux tools and will show in detail what are the steps and how to gain root access on a system for which only the IP is known. It will simulate the conditions used by hackers to attack and gain access to computer systems. The same methodology is used in the activity of penetration testing.

Technologies used (key words):

Linux, Virtual Machines,
TCP/IP, Ethernet, Python,
Scripting, Web, SQL

