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SUMMER INTERNSHIPS

APPLY until The 23th of April for your favourite Project at lasi@preh.ro

(English CV only!)

SOFTWARE TESTING

SOFTWARE TESTING #1 SOFTWARE TESTING #2 Extracting information from automotive ECU Develop a logging library for out testing based on diagnostics services platform **Project description Project description** Create a library for our internal testing • Create an application using Labview development environment to read static platform using the TTCN3 standard. • The library will be used to log all CAN information which will identify the ECU signals/messages, hardware signals and The application will be used to identify at internal variables used in testing the beginning of testing cycle the information existing on ECU processing. You will learn about CAN communication You will learn about the CAN communication and how the automotive and TTCN3 standard for testing. diagnostics are working Your skills Your skills Basic programming skills Basic Labview programming TTCN3 and CAN communication is a plus • Diagnostics services and CAN communication is a plus Preh Romania lasi Şos. Națională, nr. 31, Etaj 1 career.preh.com

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SOFTWARE DEVELOPMENT

SOFTWARE DEVELOPMENT #1 <i>Metrics generator using DXL scripts</i>	SOFTWARE DEVELOPMENT #2 SW manager for graphic application using iMX8 processor
 Project description Create DXL scripts that: analyzes information stored in DOORS and generate reports in different formats (as .doc, .xls, DOORS view) are configurable and adaptable to different projects (e.g. via GUI) extend the default features offered by DOORS tool 	 Project description Build a top level SW implemented as a set of services which: process the commands received via communication bus (e.g. CAN, UART) control the data to be exchanged between processor cores control the information to be displayed on the connected LCD
	The application shall be easy to maintain and extend with new features.
Your skills • Programming/scripting skills • OOP principles understanding • Database knowledge	Your skills • C programming / scripting skills • Linux knowledge • Microcontrollers knowledge.
SOFTWARE DEVELOPMENT #3 CAN network project specific interface	
 Project Description Simulate the necessary ECUs from the network to represent the communication hus load and provide the 	ansWErs

- Simulate the necessary ECUs from the network to represent the communication bus load and provide the appropriate signals to test the ECUs' functionality
- Only a part of the networked communication system will be actually present, communication with the missing bus nodes will have to be emulated
- Additionally, custom scripts will have to be written in order to perform specific tasks (e.g transmit a specific pattern or profile onto the bus)

Your skills

- C, C# programming
- CAN network

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