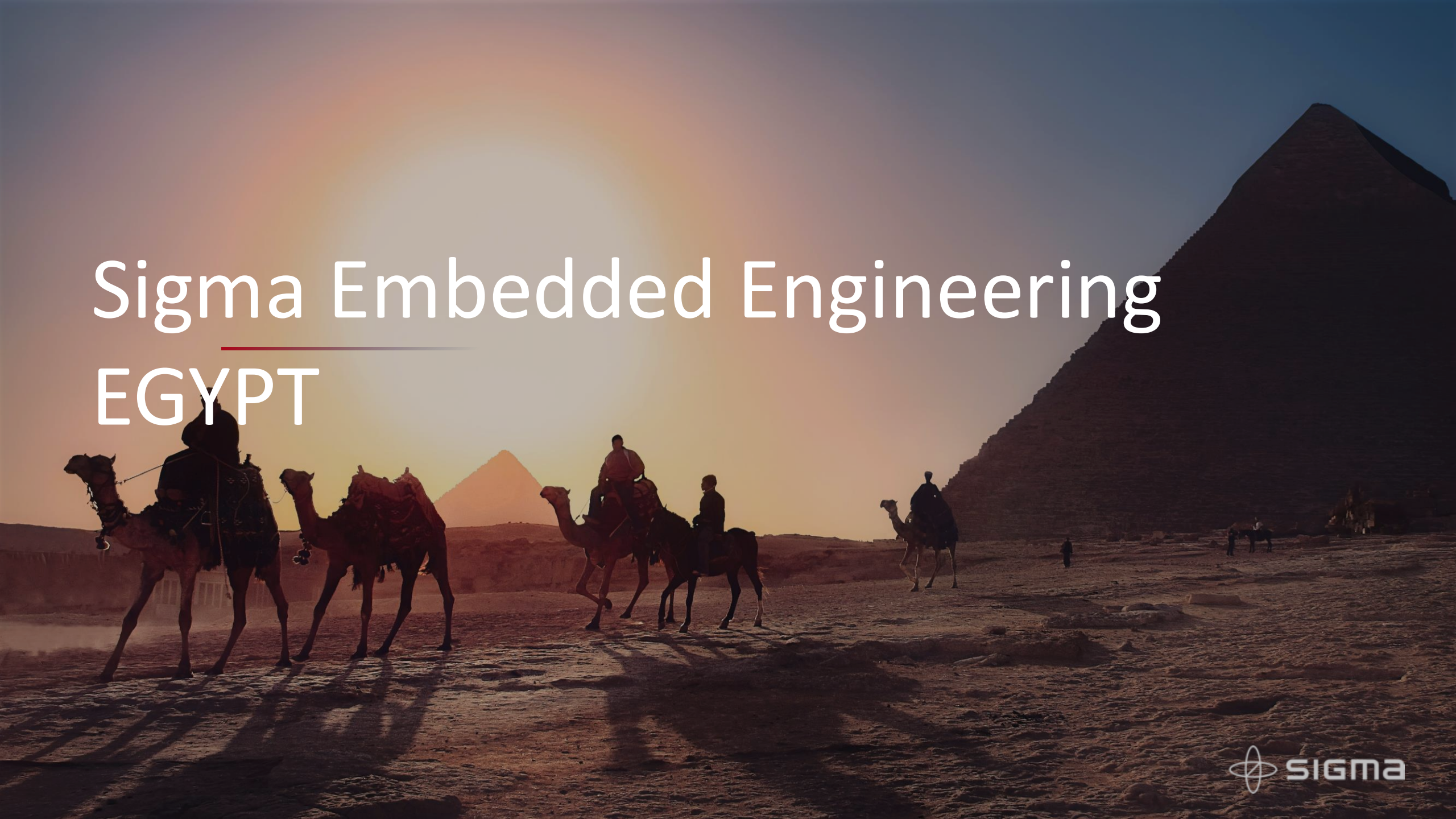


Sigma Embedded Engineering

EGYPT



Sigma
Connectivity

Sigma
Technology

Sigma
Industry

Sigma
Civil

Sigma
Software

SIGMA GROUP

Together for a better tomorrow

Sigma is divided into five different business areas.

5,000

EMPLOYEES
JUNE 2022

2,000

NETWORK
JUNE 2022

66

CITIES
JUNE 2022

13

COUNTRIES
JUNE 2022

OUR OFFER

Our delivery methods

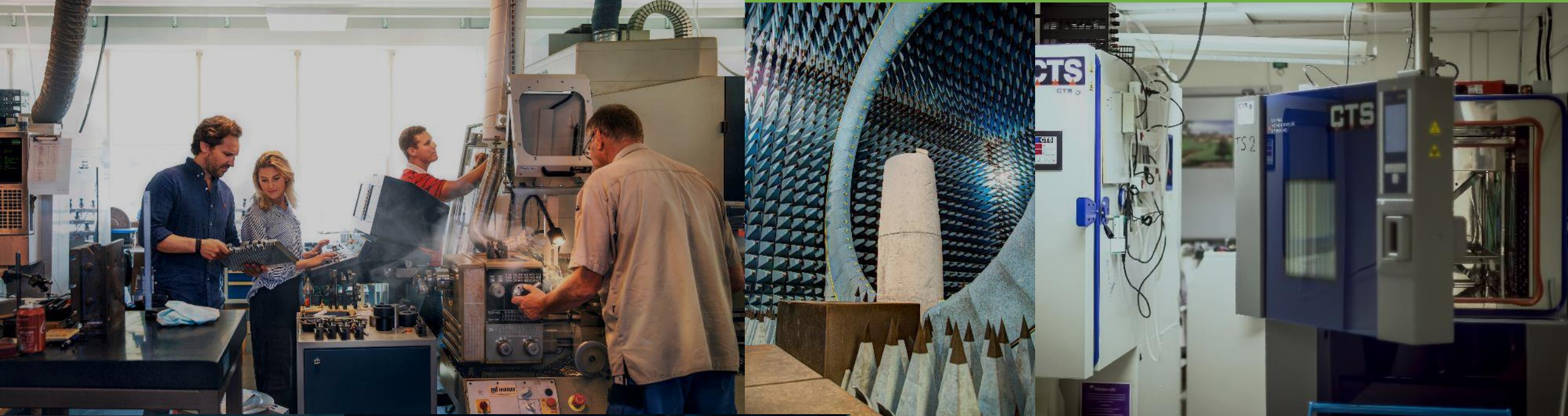
Our flexible delivery methods of know-how is one of the most important parts of our offer as a low-cost offshore R&D centre.

With our tailor-made deliveries, we can meet our customer's needs in the best possible way.



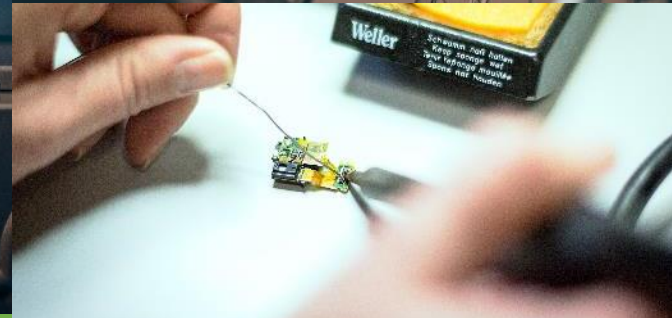
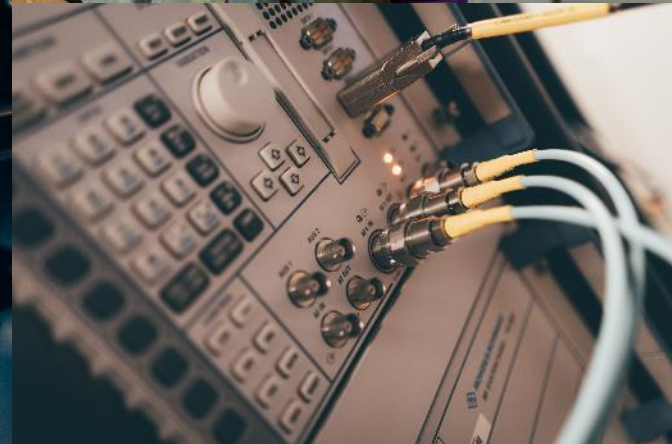
TECH DOMAINS





ADVANCED LABS

With access to one of Europe's most advanced design, test, and verification labs in-house, we can meet the specific needs of bringing smart, connected products to market.



Sigma Egypt Office in Cairo



Our ADDED VALUES

We provide clients with exceptional quality and expertise through our elite team of automotive software engineers. Partnering with us means gaining innovative, flexible solutions that consistently exceed expectations.

ACCESS TO ELITE TALENT

PROVEN TRACK RECORD

SCALING FLEXIBILITY

SPEED AND AGILITY

Our Services

We are open to various types of business models that helps our clients in achieving their goals and boost productivity.



Team Extension

We provide highly skilled automotive software engineers as full-time extensions to your team, available for both short- and long-term projects. This allows you to scale your resources flexibly while maintaining high-quality delivery.



Work Package

We manage complete projects for OEMs and Tier 1 companies, from inception to delivery, ensuring timely and efficient execution. Our team handles all aspects of the project, allowing you to focus on your core business.



B.O.T

We offer a seamless Build, Operate, Transfer model for companies looking to establish operations in Egypt. We build and manage the operation, allowing you to start softly in the country, and later transfer ownership to you once fully operational.

AUTOMOTIVE DOMAINS

Classis and Adaptive Autosar

AUTOSAR

- Provide BSWs integrations, RTE & AUTOSAR OS configurations, AUTOSAR compliant application development using different AUTOSAR stacks and frameworks

In Vehicle Infotainment Development

- Developing and integrating In-Vehicle Infotainment (IVI) platforms and applications over Android, AGL (Automotive Grade Linux), and QNX

AUTOMOTIVE DOMAINS

AUTOMOTIVE Cyber-Security and Safety



- AUTOSAR crypto stack and HSM integration, Multiple OEMs security SW integration and applying AUTOSAR Cyber security standards (e.g. ISO 21434) , development and integration of Safe AUTOSAR platforms and applying safety standards(e.g. ISO26262)

Embedded Linux/QNX Development



- Development of Embedded Linux/QNX applications whether based on Adaptive AUTOSAR platforms or not

AUTOMOTIVE DOMAINS

A close-up photograph of a microcontroller chip mounted on a printed circuit board (PCB). The chip is square with a grid of pins and a blue glow emanating from its center.

Embedded SW Development

- Embedded SW applications development, AUTOSAR CDDs, MCAL modules and SW generator development and integration

A magnifying glass icon with a red 'BUG' label inside it, set against a background of binary code (0s and 1s).

Software Testing

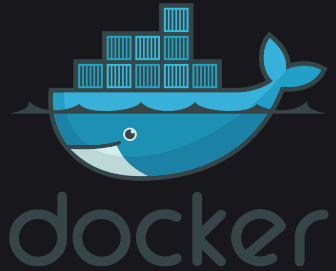
- Unit testing, module testing, integration testing Software validation and verification

A stylized icon of a person sitting in a car seat, holding the steering wheel, representing a driver or system operator.

System Testing

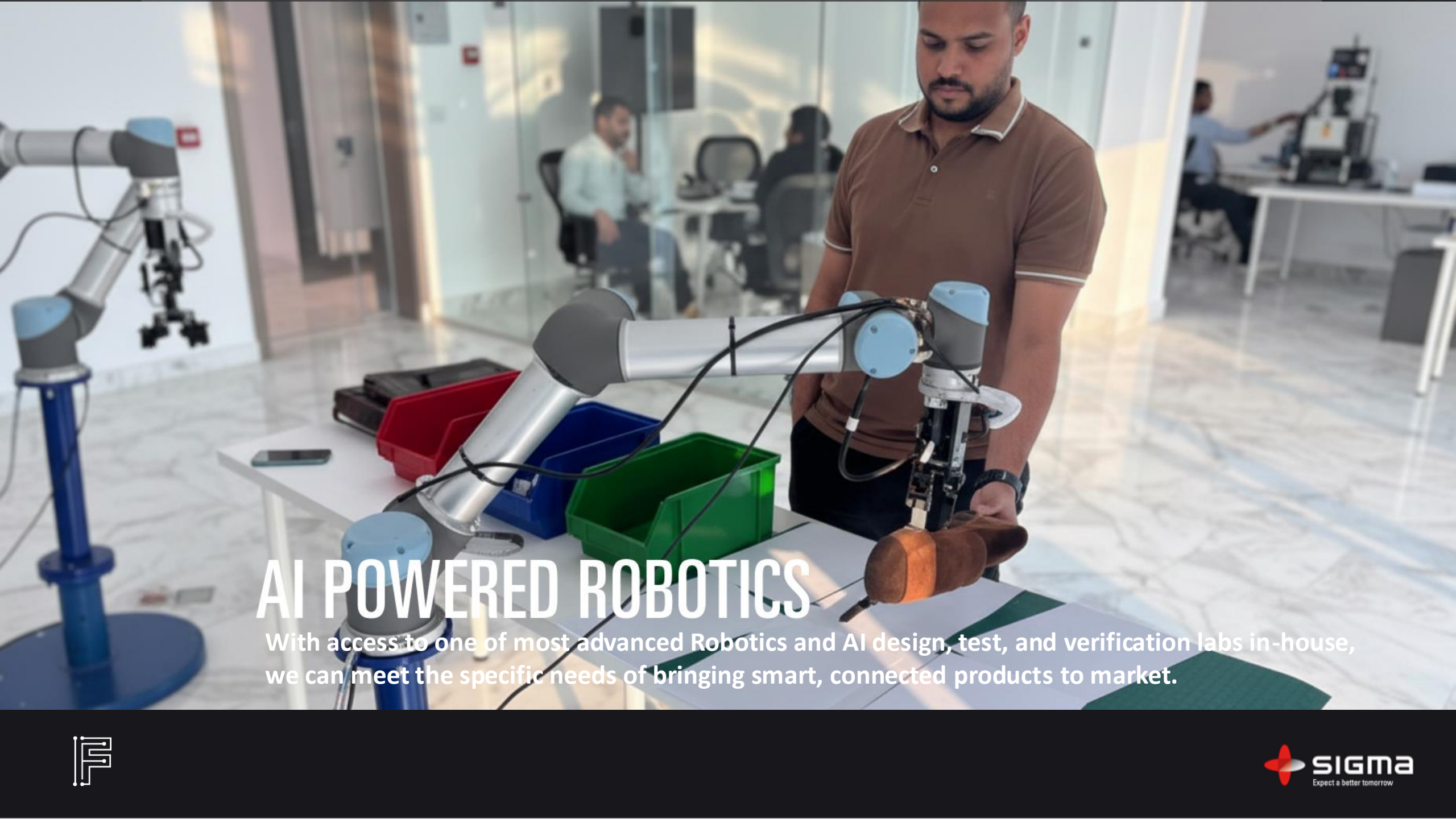
- SIL, HIL, and MIL testing for software modules by using simulation environments and recorded traces

Techs, Standards & Tools



Jenkins





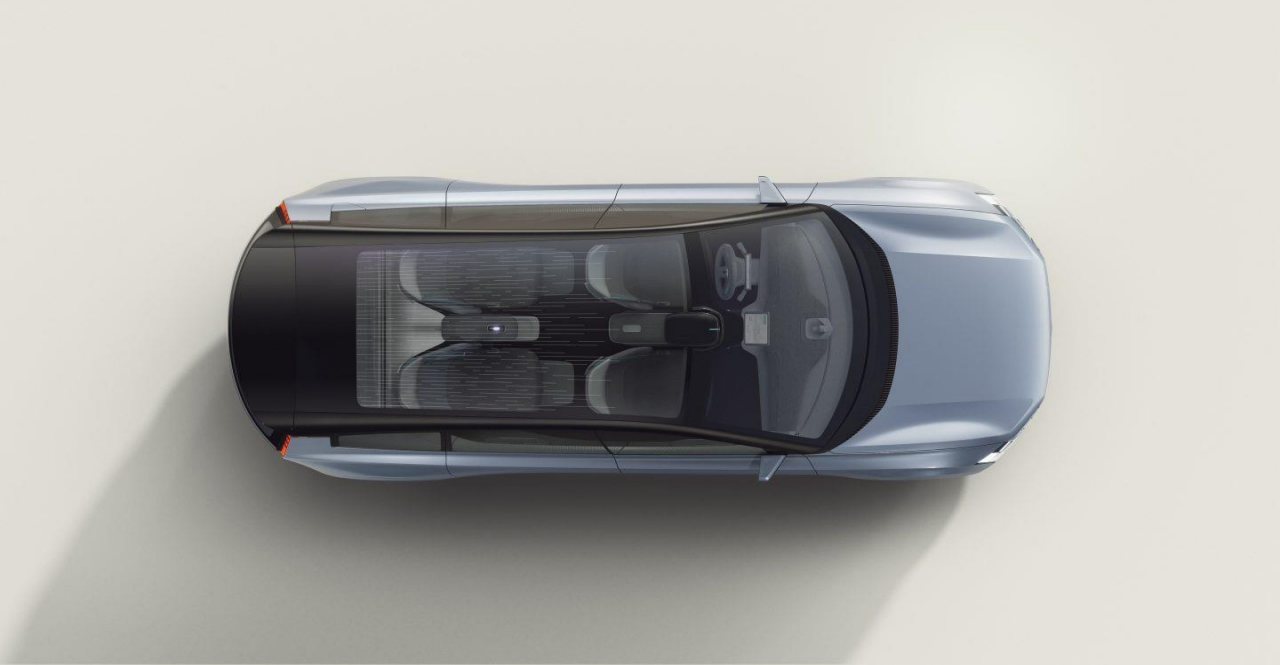
AI POWERED ROBOTICS

With access to one of most advanced Robotics and AI design, test, and verification labs in-house, we can meet the specific needs of bringing smart, connected products to market.



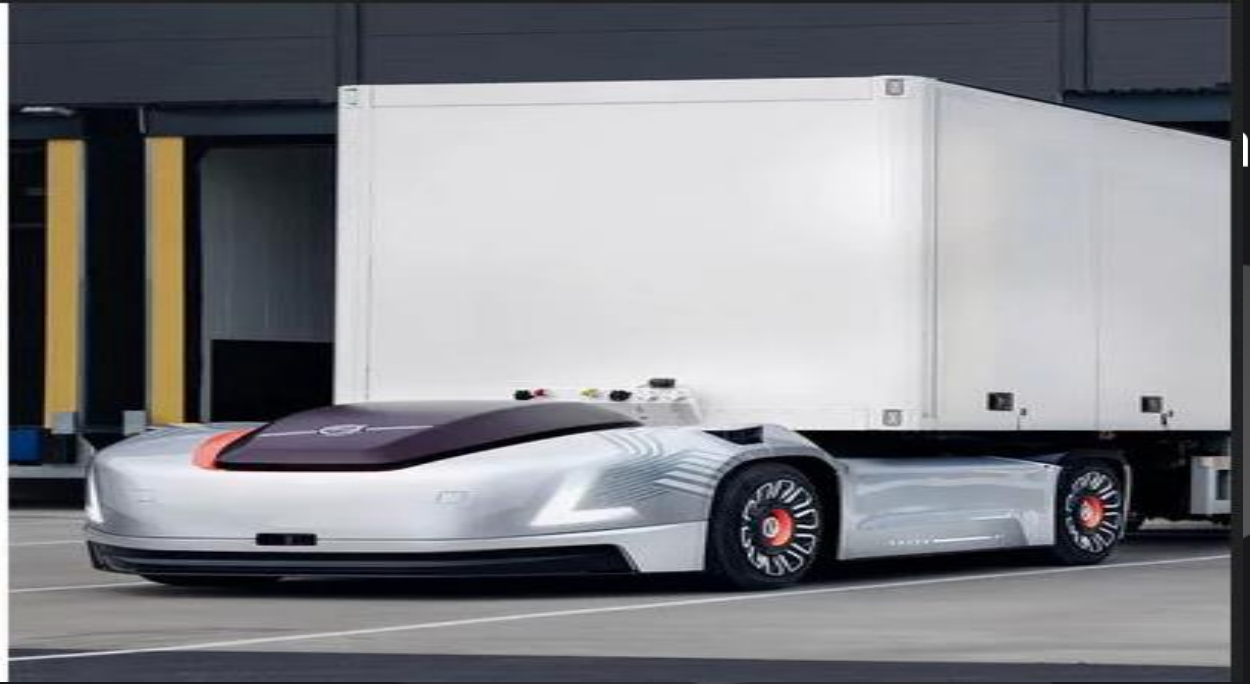
Sigma Operational Proximity





REF CASE — VOLVO CARS SPA2 PLATFORM

Development of the SPA2 project in Platform Software Services ART with boot optimization of central computer, code generation, core- and support functionality development in C++ in middleware of central computing stack, unit and integration test for different software modules, developing other software core modules such as device admin service. Also worked on reviewing modules to follow ASILB software ISO 26262 standard.



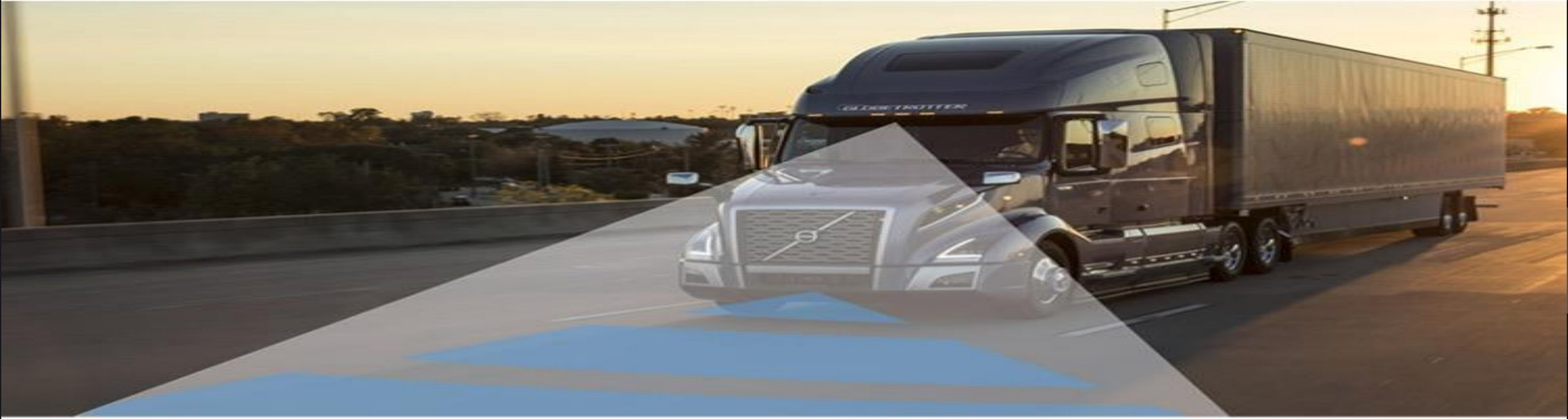
REF CASE – VOLVO TRUCKS AD STACK

Development of the Autonomous SW stack of Volvo trucks for autonomous vehicles, including sensor selection, sensor calibration, LiDAR perception, Localization fusion between different sensor modalities, Object Detection and Tracking.



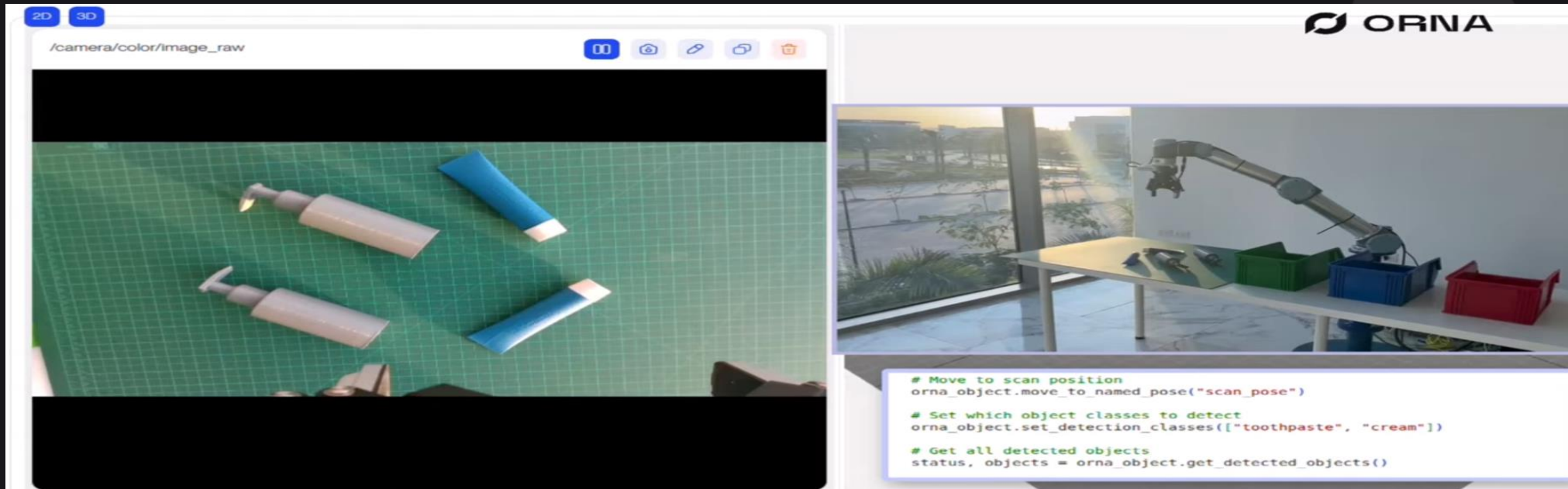
REF CASE – VOLVO TRUCKS TELEMATICS

Developing Volvo trucks telematics SW stack connecting vehicles to the cloud, enabling real-time data collection, processing, and secure communication. Integrating on-vehicle software, cloud services, and user applications to deliver features like fleet monitoring, remote diagnostics, and predictive maintenance efficiently and reliably, following the software safety standards ASILB software ISO 26262 standard.



REF CASE – VOLVO TRUCKS ADAS STACK

Developing Volvo trucks Adaptive Volvo Platform SW stack and integrating ADAS modules from the MBD models to the C++ deployment over the Volvo Host, following the software safety standards ASILB software ISO 26262 standard.



REF CASE – INTELLIGENT ROBOTIC ASSEMBLY SYSTEM WITH ADAPTIVE LEARNING CAPABILITIES

Design and implement a flexible, intelligent robotic assembly system capable of adaptively picking, placing, and assembling various devices.



ORNA Development Console Reasoning Chat Live Diagnosis Profile Settings

Generated Steps

1 Comp_Pick_Place

Description: stapler: small metallic office tool for binding papers
Type: general object

Quantity: Target Pick: scan_pose
Target Place: green_tray

Perception Parameters

1 Parameter 1

Parts: stapler Pipe: CASE_4

Selected: approve

I want to write something down, can u take a look in scan pose and pick for me something to write with

Message: Processing...

Execution XML Hide History

Current XML: 1766719112382-zayeriywmj

View Current XML Resume Restart

Execution Status BT_HALT_SUCCEEDED

10/17/2025, 7:38:39 PM	BT_EXECUTE_SUCCEEDED	Status: BT_EXECUTE_SUCCEEDED
10/17/2025, 7:39:01 PM	Status: undefined	
10/17/2025, 7:39:01 PM	STOPPING	Status: STOPPING
10/17/2025, 7:39:01 PM	BT_HALT_SUCCEEDED	Status: BT_HALT_SUCCEEDED

XML History

XML Tree #3 Active

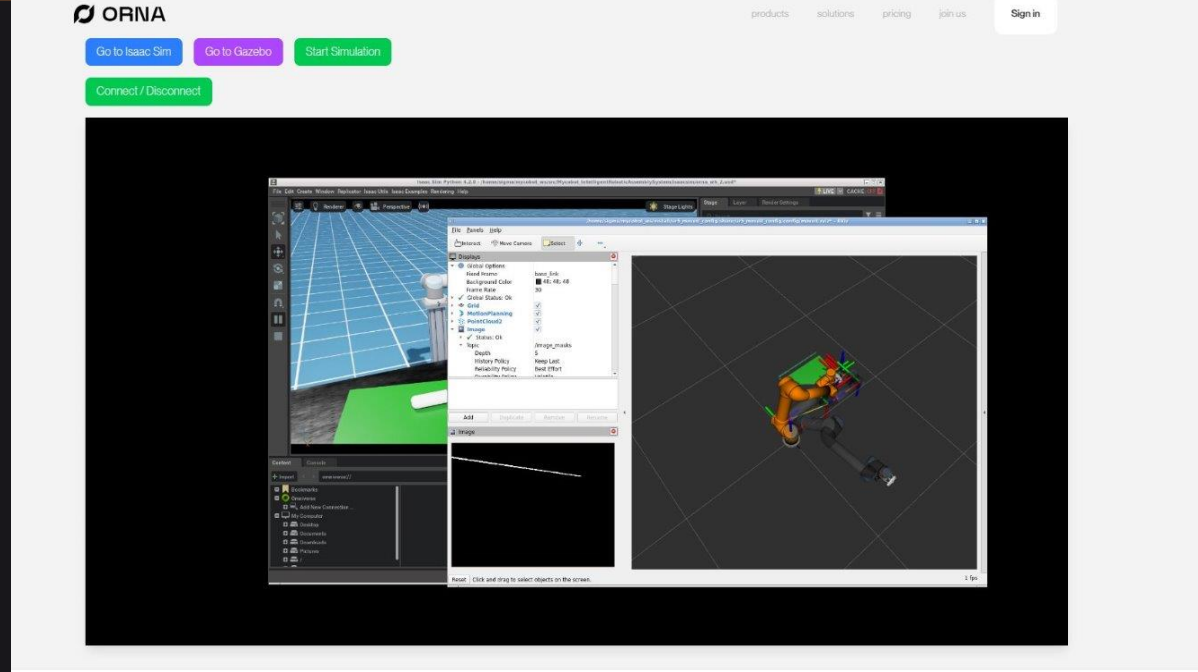
ID: 1766719112382-zayeriywmj
<?xml version="1.0" encoding="UTF-8"?> <root main_tree_to_ex...

View



REF CASE – ORNA REASONING

Developing a reasoning AI agent software stack, where it gives the customers the ability to interact with the robotic arms with prompts and the robotic arm will understand the task that is required from it.



REF CASE – ORNA CLOUD BASED SIM2REAL WEBAPP

Developing a Cloud based Webapp that provide interactive connection with different simulation environments that run over the cloud for industrial robotic arms simulations.



Connect with us



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: +201149669927



**EXPECT A BETTER
TOMORROW**