

Main Topics

- Central Computers in Software Defined Vehicles Architecture
- Latest Trends in Automotive High Performance Computing
- How does Central Compute Platforms change Technologies and Partnerships?
- Chiplet Standardization Challenges for the Automotive Industry
- Balancing Intelligence between Zone Controllers, Central Compute and the Cloud
- Virtual Platforms and Zone Based Architecture in Automotive

Preview of Top Speakers



Katrin Matthess Renault



Dr. Karsten MichelsContinental



Stefan Rinkenauer



Björn Schuh AUDI



Ralph Schleifer
CARIAD



Marc Salsona-Palomar AWS

A conference organized by:









AUTOMOTIVE COMPUTING CONFERENCE



1st Conference Day, Tuesday, November 14, 2023

09:00 Reception, Check-In & Networking

09:30

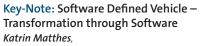
Welcome and Opening



Anne von Türckheim-Horch, Proiect Manager. SV Veranstaltungen GmbH



Martin Schleicher, Head of Software Strategy, Continental AG



CTO Renault Software & Systems, Director Upstream & Technology, Renault Group

Central/Zonal E/E Architectures and SDV

10.15

The Role of Central Computers in Vehicle EE Architecture



· Adoption of central computers

- Zone control as supporting architecture
- The view of central compute at Chinese OEMs

Richard Dixon, Associate Director, Senior Pincipal Analyst, S&P Global Mobility

10:40

Key-Note: How does Central Compute Platforms changes Technologies and Partnerships?



• Change of HW and SW architectures and impacts to partner models

· Controlling complexity through virtualization and accelerate partnerships and time to market

Björn Schuh, Head of ADAS / AD components, AUDI AG

11:15 Coffee break and networking



Overview of Ongoing Third-Party funded Projects at National and EU Level for Future Vehicle Architectures and Promising Development Processes.

- Current projects
- · Development processes against the background of generative AI

Gereon Hinz, Managing Director, STTech GmbH

12:10

Open-source, Collaboration, ASPICE, Safety - How Development for the SDV actually works Dr. Moritz Neukirchner,

Head of Architecture, Elektrobit Automotive GmbH

12:35 Q&A with speakers

12:45 Joint Lunch and Networking

Challenges of Qualifications of SDV Architectures in context of Timecritical Effect Chains

- Trend of SDV architecture
- V & V of timecritical functions like ADAS considering weaknesses and strengths of test tools and sensors

Stefan Rinkenauer, Head of Global Account Management for System & SW Applications, ZF Group

14:35

Cloud-Driven Advancements in Development for **Automotive Embedded Systems**

- Cloud computing to enable seamless collaboration among development teams
- Cloud-based tools and services
- Scalable and Secure Infrastructure

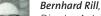
Justin Moon, Senior Director, OEM Direct Engineering, BlackBerry QNX

15:00 Q&A with speakers

Virtual Prototyping / Simulation

15:10

Opening of the Second Session





Director Automotive Partnerships GTM EMEA, Arm Ltd

Virtual Platforms in Automotive -What is the right Abstraction Level?

- There is no single solution
- · Interoperability is key

Ralph Schleifer,

Head of HW/SW CoDesign & Virtual Prototypes, CARIAD SE

15:40 Q&A with speakers

15:50 Coffee break and networking

16:20



Analysis of Dynamic Event Chains as a Key Enabler for getting Latencies and Load under Control Dr. Ralf Münzenberger, CEO & Co-Founder, INCHRON AG

Seamless ADAS/AD Testing



 A partnership approach Bernhard Müller-Bessler

Senior Director Autonomous Simulation, Hexagon

17:10

Virtualizing Electronic Control Unit (ECUs)

- · Building blocks of vECU architecture
- Cross-organization benefits

Marc Salsona-Palomar,

General Manager, Automotive Technology, AWS

17:35 (\cdots)

Panel: How do we find Common Ground in E/E Architecture?









- **Simon Fürst**, Cooperation Manager Automated Driving, BMW Group
- Katrin Matthes, CTO Renault Software & Systems, Director Upstream & Technology, Renault Group
- **Björn Schuh**, Head of ADAS/AD components, AUDI AG
- 4 Dr. Karsten Michels, Head of Product Line Hig-Performance Computer, Continental Automotive Technologies GmbH

18:15 Conclusion by the chairman

End of the 1st conference day

18.30 **Evening Event with Networking Opportunities**

14:00

AUTOMOTIVE COMPUTING CONFERENCE

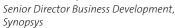


2nd Conference Day, Wednesday, November 15, 2023

08:25

Welcome and Opening of the 2nd conference day Christian Malter,





Hardware abstraction for software-defined vehicles

08:30

Key-Note: Changing World of an Automotive Tier1 • From electronic control units to high-performance



computer/s From hardware to software

Dr. Karsten Michels, Head of Product Line High-Performance Computer, Continental Automotive Technologies GmbH

09:05

Use of a Safe and Secure Software Platform to bridge the Conflicting Goals of the OEM and Silicon Vendors





 Practical example of how a safe and secure software platform bridges the OEM/silicon vendors goals

 How to reduce ECUs without compromising system safety Arnaud Van Den Bossche, Business Development Director, EMEA, Green Hills Software GmbH and

Nikola Velinov, Senior Business Development Engineer, Green Hills Software GmbH

09:30

Mastering the Complexity of High-Performance Computers



 Model-based approach for designing high-performance computers as key components of modern vehicle architectures.



 Defining base and application software architecture, communication design and network topology of high-performance computers

Alexander Haliulin, Product Management Engineer, Vector Informatik GmbH and

Marcelino Varas, Product Area Manager, Vector Informatik GmbH

09:55

Q&A with speakers

10:05 Coffee break and networking

Semiconductor Technologies

10:35

A Single Chip Implementation of Autonomous



· Implementation of an autonomous driving task in a single-chip, a low-power solution

Pier Paolo,

Director of Automotive Marketing, Ambarella Inc.

11:00

Automotive Chiplets, A Pivotal Moment



· Why automotive chiplets and why now

Value of chiplets

· How to make the righthand turn

Bart Placklé

Vice President Automotive, imec

11:25

The Software Defined Car Requires Flexible Hardware



- · How to realise high integrity, flexible, scalable and secure compute platforms
- · Topics covered include FuSa, emerging APIs, digital twins, chiplet technology

Jake Kochnowicz,

Vice President of Product Management, Imagination Technologies

11:50

High Performance Compute Solutions for the next decade of Automotive Designs

- What computing solutions do we expect to see in the decade ahead
- · How can the ecosystem address the road ahead to enable these solutions

Vasanth Naniundes Waran

Senior Director Product and Strategy, Renesas Corp.

Q&A with speakers 12:15

12:25

Joint Lunch and Networking

13:40

Opening of the Final Session



Dirk Diekhoff, Senior Director Head of Partner Management, Elektrobit

13:45

Slot reserved for a start-up pitch

14:10

Software Defined Processors for SDV?



 Software optimized abstraction of microcontroller platforms

Robert Leibinger,

Solution Marketing Director, NXP Seminconductors

14:35

Automotive Compute, A Pivotal Moment



- Insights into the breadth of Arm IP How does the Software Defined Vehicle benefit from Arm IP?
- · Solving big problems with Arm deep dive into **Functional Safety**

Dennis Laudick

VP Automotive GTM. Arm Ltd

15:00

SDV or "Can Software Destroy the Vehicle?"



- New and changing use cases of Flash Memory in Automotive Systems
- · OEM and Flash Memory expert view on observed behavior, identified challenges
- · Suggestions how to mitigate identified risk



Bernd Niedermeier,

Head of Automotive Business Development, Tuxera Inc

Michael Huonker,

Architect Computing Platforms, Mercedes-Benz AG

15:25 Q&A with speakers

15:35 Closing words Dirk Diekhoff

15:40 End of the conference

Please register online www.automotive-computing-conference.com/registration





Members of the Advisory Board



Dirk Diekhoff Senior Director Head of Partner Management, **Flektrobit**



Alexander Lenk Global Automotive Solutions Architecture Leader. Amazon Web Services



Christian Malter Senior Director Business Development, Synopsys



Bernhard Rill Director Automotive Partnerships GTM EMEA, Arm



Martin Schleicher Head of Software Strategy, Continental



Björn Schuh Head of ADAS/AD components, AUDI

5th International

AUTOMOTIVE COMPUTING CONFERENCE



Registration information

Tuesday November 14 and Wednesday November 15, 2023

Event location

Hilton Frankfurt Airport

THE SQUARE, Am Flughafen,

60600 Frankfurt/Main - Airport (Deutschland)

Phone: +49 (0)69 2601 2000

frankfurtairport.events@hilton.com

€ 229 breakfast included

Please book directly at the hotel with the keyword "SV Events" Please note that the room contingent is only available until

October 2, 2023

Alternative Accommodation

Motel One Frankfurt-Airport

Colmarer Straße 2; D-60528 Frankfurt am Main

Phone: +49 (69) 660 53 60 frankfurt-airport@motel-one.com € 94,90 breakfast included

Please book directly at the hotel with the reservation number

"509.725.166" and the keyword "SV Events"

Please note that the room contingent is only available until

October 2, 2023



We will offer a shuttle service from the Motel One Niederrad to Hilton Airport Hotel

Delegate Fee + VAT

• Early bird (until September 15, 2023)

€ 1.695 € 1,795

· Regular fee

• Free participation in the evening event on November 14, 2023

Virtual participation

€ 790

• Ordering of digital conference documentation for (available from November 16, 2023)

€ 310

Services

The regular fee includes the following services (on-site):

• Oportunity to visit the accompanying trade exhiibiton

- Participation in the conference
- Conference documentation
- Refreshments during the breaks
- Lunch on both conference days
- Get-together on November 14, 2023



Profit from the early bird till September 15 and save € 100!

Sponsors



****:** BlackBerry, **QNX**,







Exhibitors







Your contacts



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