

**SYMBITECT**

ARCHITECTING COMPLEXITY

# COMPLETE TRANSFORMATION TO MULTICORE AUTOSAR ARCHITECTURE

CLIENT: ZF ACTIVE SAFETY

INDUSTRY: **AUTOMOTIVE**

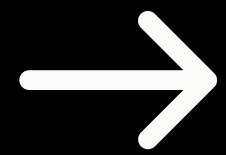
SIZE: **CORPORATE**

HQ: **US**

OEM: **FORD, GM, STELLANTIS**

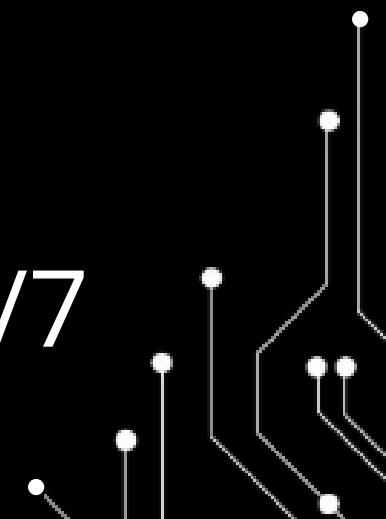
YOUR IT TRUSTED PARTNER

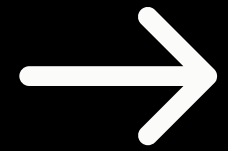
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# CHALLENGE

LACK OF EXTERNAL EXPERT  
TECHNOLOGY KNOWHOW  
GUIDANCE ON AUTOSAR  
MULTI-CORE MIGRATION



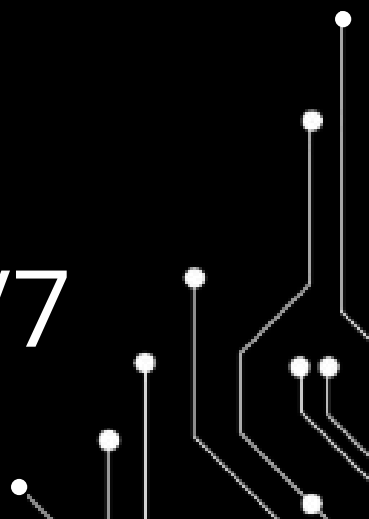


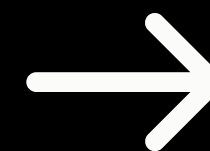
# SOLUTION

CONFIGURED & INTEGRATED A CYBERSECURITY STACK WITH A VECTOR HARDWARE SECURITY MODULE FOR CRYPTOGRAPHIC SERVICES AND SECURE MANAGEMENT.

TRANSFORMED A PRODUCT LINE TO MULTICORE AUTOSAR ARCHITECTURE, INCLUDING SWCS AND RTE INTEGRATION.

EXTENDED THE SOFTWARE ARCHITECTURE META-MODEL FOR RHAPSODY.





# PROJECT TEAM

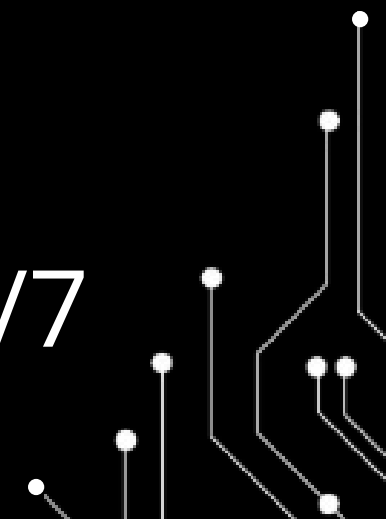
SENIOR AUTOSAR ARCHITECT

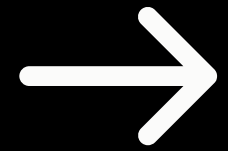
FEATURE OWNER

SENIOR SOFTWARE DEVELOPER

# PROJECT LENGTH

48+ MONTHS



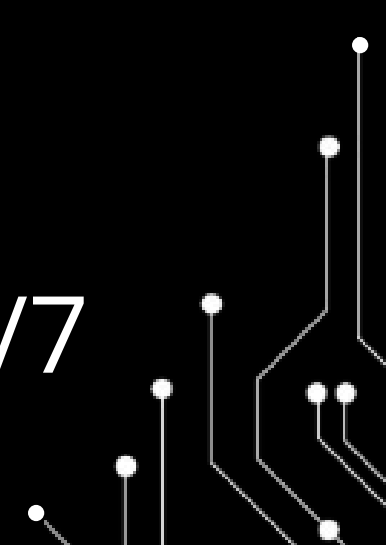


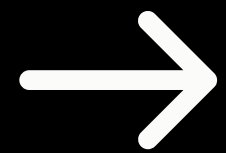
# TECHNOLOGIES

INFINEON TC3, TC4, EMBEDDED C, CAN,  
HSM(HARDWARE SECURITY MODULE), UDS, FOTA  
(FIRMWARE OVER THE AIR UPDATE)

# TOOLS

RATIONAL RHAPSODY, TASKING COMPILERS,  
ISYSTEM WINIDEA, VECTOR DAVINCI  
CONFIGURATOR / DEVELOPER, PTC,  
GIT/BITBUCKET, JIRA, CODE-BEAMER, DOORS,  
CANALYSER, CANDELA, CANAPE





# METHODOLOGIES

AUTOSAR

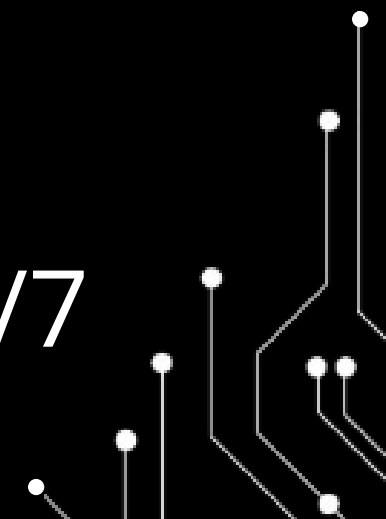
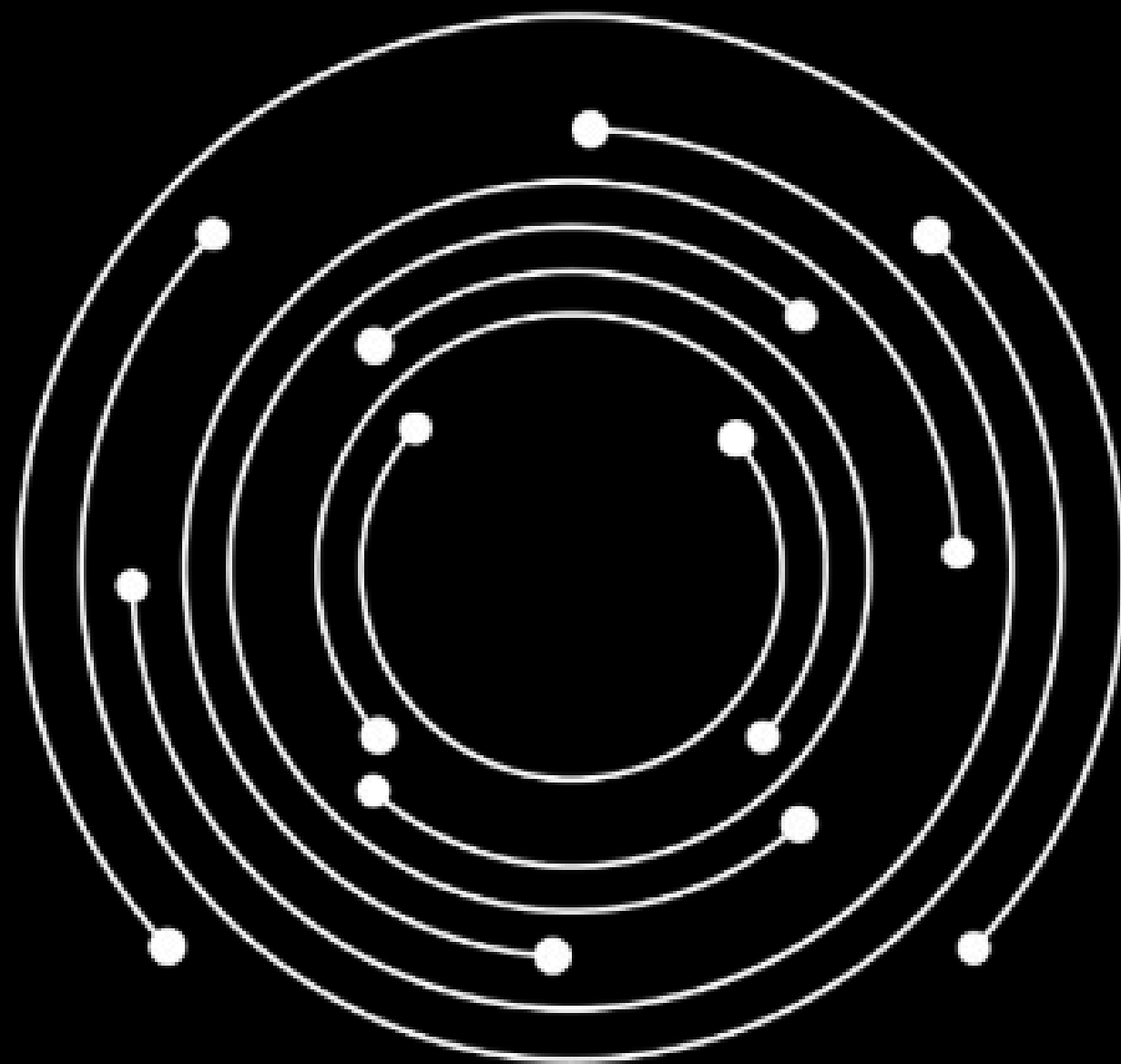
ASPICE

ISO 26262

ISO 21434,

AGILE SW

KANBAN



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