

SYMBITECT

ARCHITECTING EMBEDDED COMPLEXITY

COMPLETE TRANSFORMATION TO MULTICORE AUTOSAR ARCHITECTURE

CLIENT: ZF ACTIVE SAFETY

INDUSTRY: **AUTOMOTIVE**

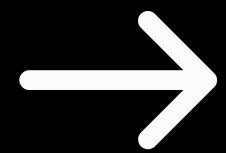
SIZE: **CORPORATE**

HQ: **US**

OEM: **FORD, GM, STELLANTIS**

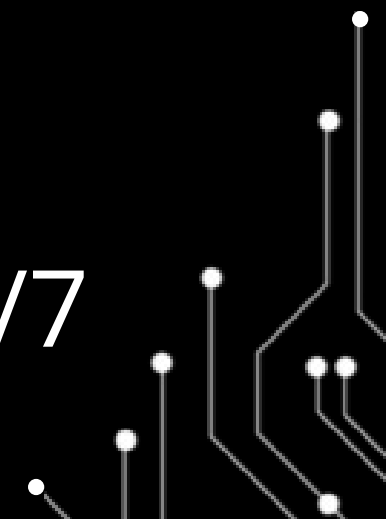
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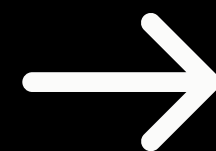
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CHALLENGE

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



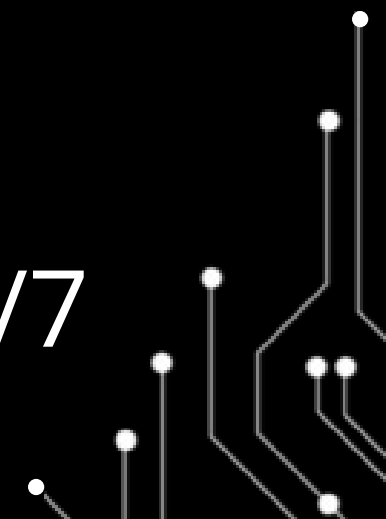


SOLUTION

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

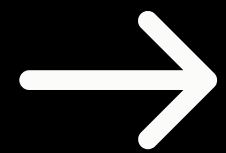
TRANSFORMED A PRODUCT LINE TO MULTICORE AUTOSAR ARCHITECTURE, INCLUDING SWCS AND RTE INTEGRATION.

EXTENDED THE SOFTWARE ARCHITECTURE META-MODEL FOR RHAPSODY.



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PROJECT TEAM

SENIOR AUTOSAR ARCHITECT

FEATURE OWNER

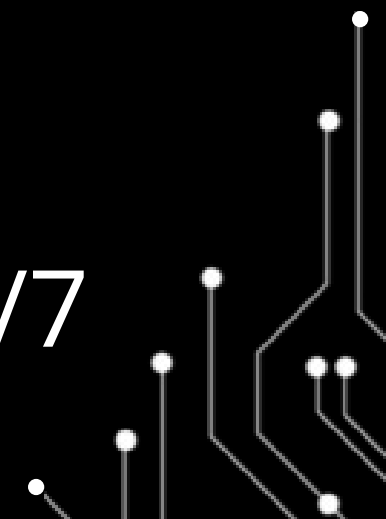
SENIOR SOFTWARE DEVELOPER

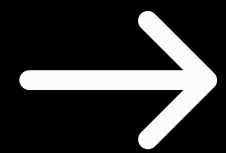
PROJECT LENGTH

48+ MONTHS

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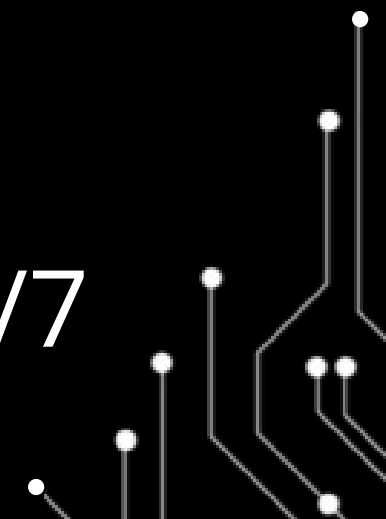


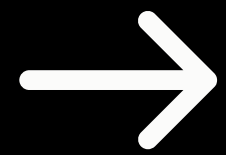
TECHNOLOGIES

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

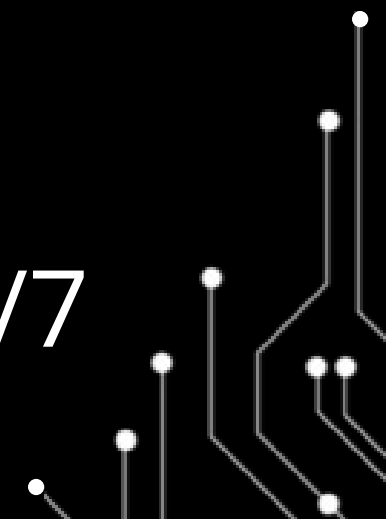
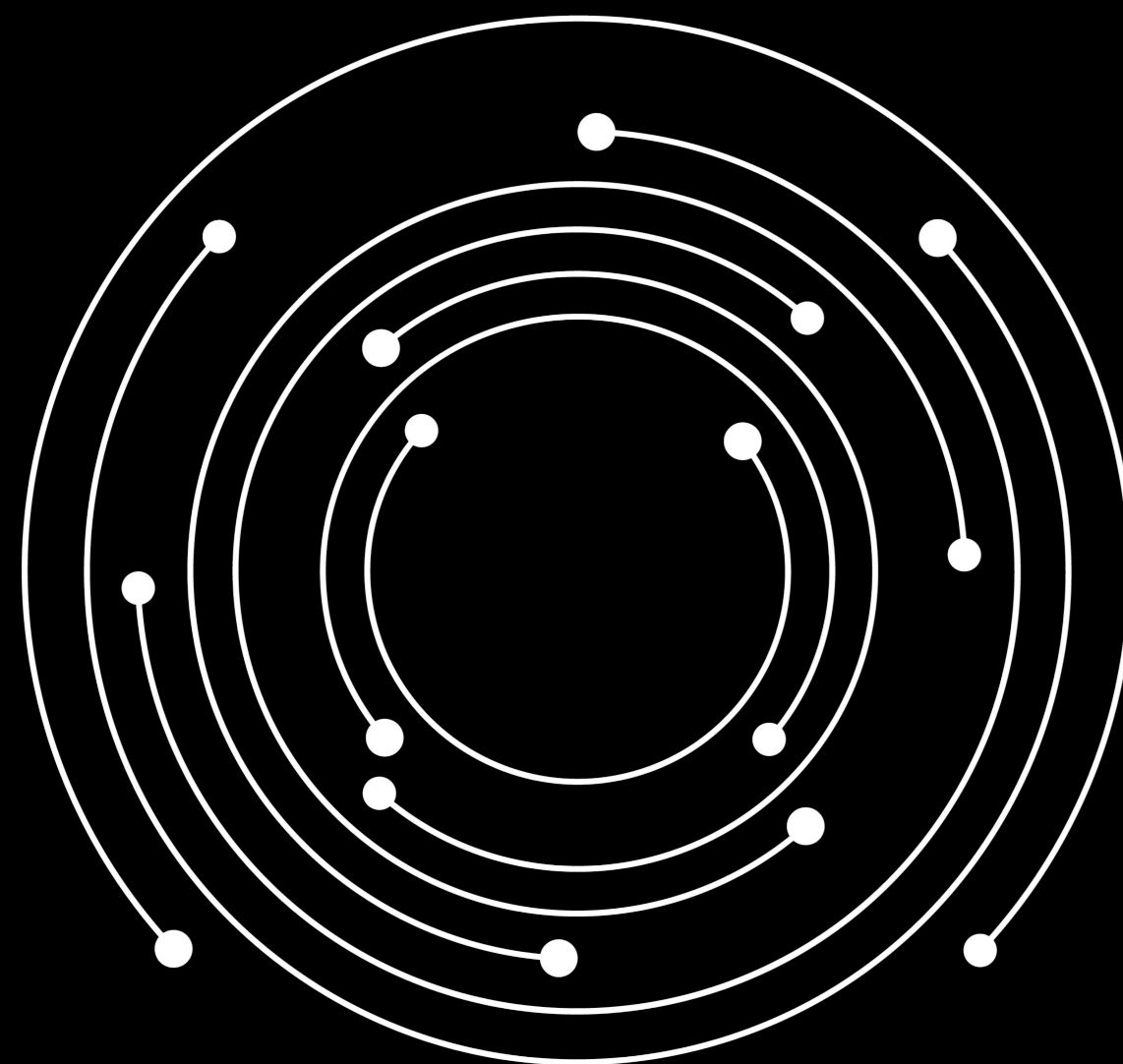
ASPICE

ISO 26262

ISO 21434,

AGILE SW

KANBAN



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ARCHITECTING

EMBEDDED

COMPLEXITY