

PHILOSOPHY

SMART - create products that are characterized by a high intelligence content

SIMPLE - just implement what's needed, not what's possible

SWIFT - success projects with a great amount of experience

Project Reference

CONTACT

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CUSTOMER

GKN Driveline International GmbH

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PROJECT NAME & PERIOD

Functional Safety Software for Electronic Torque Manager (ETM®)

Feb-2021 – Mar-2022

PROJECT CONTENTS

ETM® is an actively controlled coupling in on-demand and full-time all-wheel-drive drivelines as well as in axle applications

- Concept Development & Evaluation for Safety Torque Monitoring
 - Development of several MATLAB®/Simulink® simulation models for estimation of real clutch torques
 - Analysis of potentials for serial implementation and (matrix-) evaluation of favorite concepts
- Consulting and Support for Development of Functional Safety Software (ISO 26262)
 - Automotive SPICE®-conform development along Software Engineering Process Group (SWE) within Windchill PLM-Software (PTC Integrity Lifecycle Manager):
 - Requirements Engineering (in coordination with stake holders)
 - Software Detailed Design
 - Software Unit Construction
 - Fixed-point algorithm implementation with dSPACE TargetLink®
 - Software Unit Verification (unit tests with GKN-internal tools)
 - Support of plannings for software development and release sprints
- Ensuring quality maturity levels in corresponding development stages
 - Preparation, implementation and documentation of reviews
 - Analysis of automated rule check results on Jenkins server and implementation of rules regarding MAAB, MES, MISRA, ASIL, etc.

NET PROMOTER SCORE

How likely is it that you would recommend the services of designXtronic to a friend or colleague?

Not at all likely

Extremely likely

1 2 3 4 5 6 7 8 9 10

Notes:

- Very structured, target-oriented and on-time way of working
- Contributed his many years of professional experience extremely well to the project
- Was directly a great support for the project and the team right from the start
- Was able to implement GKN processes very quickly and demonstrate them, along with other colleagues

Customer name: Erik Resvoll

Date, signature: 02.03.2022

E. Resvoll