

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

GLOBE Fuel Cell Systems GmbH

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PROJECT NAME & PERIOD

Robust Safety Software Solutions for Fuel Cell Control

Jul-2024 – Feb-2025

PROJECT CONTENTS

- Requirements Engineering for Safety Function Modules
 - Analysis and formalization of requirements using a defined pattern to ensure 100% verifiability
 - Validation of formalized requirements for consistency and completeness using MATLAB® *Requirements Verifier*
 - Automated Stateflow® unit generation based on formalized requirements with MATLAB® *Requirements Verifier*
- Design and Implementation
 - Development of application software architecture
 - Integration of generated units in Simulink® overall model
- Unit testing of Safety Function Modules
 - Specification of unit tests with MATLAB® *Model Tester*
 - Execution of reproducible regression tests (Model-in-the-Loop)
 - Automated generation of detailed and summary reports using MATLAB® *Model Tester*
- Toolchain optimization for configuring calibratable parameters for production code generation within the HYDAC software environment MATCH® for safety electronic control unit TTC 2380
- Process Documentation aligned with DIN EN ISO 13849

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:

Excellent, as always

Customer name: Max Eschenbach

Date, signature:

10.3.25



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