

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

designXtronic Roman Starbek


Telephone: +49 (0) 21 74 / 666 32 67

Mobile: +49 (0) 1523 / 767 41 22

E-Mail: roman.starbek@designXtronic.de

Web: www.designXtronic.de

Address: Kapellenweg 7
51399 Burscheid
GERMANY

 www.xing.com/profile/RomanFrank_Starbek

 www.linkedin.com/in/roman-starbek-98019115a

CUSTOMER

GLOBE Fuel Cell Systems GmbH

Schelmenwasenstraße 1

D-70567 Stuttgart

PROJECT NAME & PERIOD

Model-based software design for a 400 kW fuel cell system

Aug-2022 – Dez-2023

PROJECT CONTENTS

- Development of infrastructure and simulation architecture for hybrid fuel cell systems in MATLAB®/Simulink® including all relevant interfaces
- Design of the simulation environment for a flexible and database-based exchange of components and I/O's
- Development of plant simulation models, model-based controller design and software implementation for components
 - High temperature cooling circuit for stack cooling
 - Cathode circuit for oxygen reaction
 - Coordinator for coordination of all software components
 - System Interface for interaction with HMI and system test bench
- Unit tests for software components
- Software-related support during commissioning of component test benches (close interaction and coordination with engineering and testing teams)
- Parameter identification for plant simulation models
- Implementation of overall fuel cell system simulation model including all software components and plant (cooling circuit, cathode circuit, anode circuit, test bench, ...)
- System tests and optimization of functionality

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



Notes:

Customer name: Max Eschenbach, Gunter Kleber

Date, signature: 30.11.2022

