design X tronics

smart.simple.swift.

Project Reference

CONTACT

designXtronics Roman Starbek

Telephone:	+49 (0) 21 74 / 666 32 67
Mobile:	+49 (0) 1523 / 767 41 22
E-Mail:	roman.starbek@designXtronics.de
Web:	www.designXtronics.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 – Mar-2024

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 designXtronics to a friend or colleague?

Not at all likely | Extremely likely

1 2 3 4 5 6 7 8 9 (10)

Notes:

All the Best for You !!!

Customer name: Max Eschenbach, Gunter Kleber

Date, signature: 14.5.24