AUTOMATIA Elektrotechnik

CUCOCON & engineering & automation wir sorgen für ihre konzepte

Company presentation FORS 2025

Pr

Produktion

PRUFAN

CuroCon.de

CuroCon GmbH - Engineering & Automation



- Product and service portfolio for stationary, mobile and energetic automation and applications
- Engineering services in research, development, prototype construction as well as for small and large series production
- Cross-industry know-how for automotive, testing/vehicle/air/rail/building/ energy/measurement/control and regulation technology
- Realization of customer-specific solutions and custom-made products as well as modifications and modernizations





Our founders, shareholders and managing directors





Bernhard Müller

Michael Wißbach

Dipl.-Ing.
Bernhard Müller

Dipl.-Ing.
Michael Wißbach

Our location

Gernsheimer Str. 3 – 64673 Zwingenberg – Germany





"More than 30 years of experience in electrical engineering & automation"



2024 Test device for charging stations with phantom power

2023 Development of **pantograph charging station** for eBuses

2022 Introduction of **CuroControl®** for battery testing

2021 20th company anniversary

2020 Charging infrastructure AC + DC High Power charging based on electrical cabinet

2019 Relocation to new company building with assembly hall

2018 Start with energetic automation for energy/load management

Development of High-Power-Charging
DC Link UP® - Box for test benches

2016 First R&D development projects

2015 Start with mobile automation for e-mobility with CuroControl®SRx

Developement MATLAB®SIMULINK® based mulitvariable real-time-control

2013 Marking systems **CuroCon***mark* for product identification

Development of **virtual transmission test bench CuroConvirt** for test bench simulation



1991 Start stationary automation for test bench and plant construction

1994 Digital regulation for drive technology

Reproduction of vehicle powertrains in test benches using **dynamic three-phase drives**

1998 Development of **PC-based automation** for component test benches and fuel cell research

2001 Foundation of CuroCon® GmbH

Development of **multivariable control** for all-wheel drive train replica in test benches

2004 Introduction of own automation system CuroControl®

2005 Market entry **China** in test bench/plant construction

2006 Introduction of **powertrain simulation** for test bench design

2009 First own electric vehicle as development platform for electromobility

2010 Development traction drive test bench CuroContract®

2011 Market entry USA in test bench/plant construction

Extract from our customer list



















Stationary automation

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- Applications in test bench and plant construction in the field of drive line and chassis technology as well as braking, driving safety systems and battery testing
- Automation of fully automated series test benches for automatic car transmissions as well as development and prototype test benches on CuroControl® basis
- CuroControl® extension for hybrid transmission functionalities and battery test benches







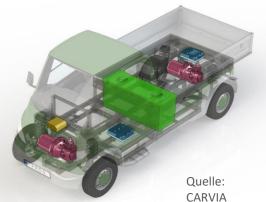
Mobile automation

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- Applications in e-mobility and for the electrification of vehicles + commercial vehicles
- Transfer of know-how from electromotive powertrain replica in plant engineering to onboard control/regulation systems (ECU)
- Driver information and operating systems with extensive functions and interfaces
- Integrated safety functionality, connection to electronic braking systems (EBS)
- Data recording of relevant vehicle parameters
- Service interface for remote maintenance/ diagnostics



Quelle: FRAMO





Energetic automation

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- Applications in energy/charging technology incl. load/energy management in combination with renewable energy generation and storage
- Charging infrastructure for factory/ company premises and charging locations incl. associated load/energy management
- Charging technology for electric and hybrid vehicles/commercial vehicles
- Charging controller for reliable communication with the electric vehicle
- Measuring and testing technology for charging infrastructure and energy meters







R&D - projects







Motor / Generato









evTrailer2 - Electrified truck trailer for cost, fuel, emission reduction with self-sufficient shunting capability https://evtrailer.de evTrailer Zugkrafterfassung sensorischem

Gefördert durch: Bundesministerium für Wirtschaft und Klimaschutz

aufgrund eines Beschlusses des Deutschen Bundestages

- **Effkon** Efficient heat storage and energy generation system for thermal conditioning of buildings
- **Buffered-HLL** Network-oriented, cost-efficient high-performance charging system for mid-sized commercial public transport in suburban areas





Markets and Customers





Aviation and railway industry

(Rosen Group ...)

Automotive industry

(ZF, CAS, Magna Steyr, Atesteo, Lyric ...)

New markets/requirements



E-mobility



Building, load and energy management (charging infrastructure ...)



Transport-/
logistic industry



R&D - Universities and research institutions

(TU Darmstadt, TU Kaiserslautern, Fraunhofer Institute ...)

Networking



Automotive Cluster RheinMainNeckar

CuroCon develops as a cooperation partner
 new ideas and products for the automotive industry

Cluster Elektromobilität Süd-West

 CuroCon designs as a network partner in working groups and projects the further development in e-mobility

Research and development projects

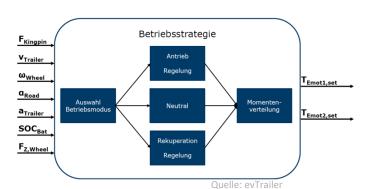
 CuroCon is a consortium partner in publicly funded projects on e-mobility and energy efficiency



elektromobilität süld-west 🤐

für Wirtschaft

aufgrund eines Beschlusses



"We create e-mobility!"



- Actively creating the future and developing/promoting innovative technologies
- Proprietary plug-in hybrid and e-vehicles for practical experience in e-mobility
- Experience reports and exchange of experiences also on the Internet





... your partner in

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stationary, mobile and energetic

Electrical engineering and Automation

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