

NEWSLETTER

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CASE STUDIES

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HORIZONTAL AND VERTICAL GETEC SOLUTION PORTFOLIO EXTENSION

In the last months GETEC has been busy to provide engineering and testing solutions to our customers and partners. The demands from customers are linked to the main automotive industry trends: CO₂ reduction e.g. by e-mobility, shared mobility and autonomous driving.

Facing high pressure to further reduce the energy consumption OEMs and Tier 1 review all steps of the development V-model. Requirements are revised and updated e.g. based on benchmarking. Overall system efficiency is improved by hardware, electronics and control software. The development targets are verified during testing.

SHARED MOBILITY – IN WHICH A VEHICLE WILL BE USED BY MORE THAN ONE OWNER OR FOR MORE THAN ONE PURPOSE – HAS ENTERED THE LIGHT COMMERCIAL VEHICLE (LCV) MARKET.

The market demand is to increase the daily usage time and usage scenarios. GETEC's solution is battery swapping in battery swapping stations or using range extender systems. This saves operation costs and provides also a significant reduction in the CO₂ footprint since one vehicle can be used longer and for multiple purposes.

New solutions for LCV e-mobility are required – we also worked with huge energy on our new baby "eD1 MINI!". The core focus of eD1 is the so called **chassis domain controller** (CDC) which is an solution to integrate all chassis related controls in a single control unit.

This magazine shows in multiple articles GETEC's portfolio extension – in horizontal direction:

- ▶ Benchmarking and CAN Decoding on the example of BMW iX series
- ▶ Efficiency optimization via system control software
- ▶ High performance differential testing

and in vertical direction:

- ▶ Launch of a Mini LCV developed by GETEC
- ▶ Introduction of a battery swapping station developed by GETEC

I hope you enjoy reading our magazine!

Best regards

Sven Steinwascher
CTO





FROM THE VEHICLE TO RAW MATERIAL, BENCHMARKING CAN DO LIKE THIS!

In recent years, under the background of strong policy support and high-speed R&D of enterprises, the new energy vehicle industry has developed rapidly. Market penetration of BEV is rising rapidly. GETEC carried out benchmarking experiments on two BEVs which are highly popular and technically representative. The work scope covers testing from the vehicle performance to the raw material of the cell:

Vehicle Performance

- Charging Testing
- Consumption Testing
- e-PT Efficiency Testing
- e-PT Teardown
- Battery Package Teardown
- Cell Testing

FROM VEHICLE TO RAW MATERIAL

To enable our customers to compare their vehicle with the market. GETEC carried out benchmarking. From vehicle test over system/subsystem & component test and assessment. GETEC can offer all disciplines. Even material level benchmarking has been conducted.

WORKING CONDITIONS COVER THE WHOLE SCENE

GETEC has complete test road, hub, bench and environmental resources of vehicle and powertrain. In the project, mature experimental method and environmental simulation technology was applied to create working conditions covering the whole scene, such as vehicle drivability, energy consumption, charging performance and powertrain efficiency, etc. So that we provided our customer with a comprehensive vehicle assessment report.

SOPHISTICATED BATTERY TESTING

GETEC provided a finer granularity test service for battery testing. By disassembling the battery package into components, information such as internal structure and parts can be obtained to further test the durability, performance and materials of the cell.

With years of experience in testing, GETEC is able to offer the best solution to customer on bench testing as well as road testing. The test-cycle is further shortened through 7/24 all-day testing while ensuring the test quality, and the high-quality and time-sensitive data are guaranteed in the meantime.



ENHANCING THE OFF-ROAD CAPABILITIES OF VEHICLES

In the world of automotive engineering, optimizing torque transfer efficiency is crucial for vehicles designed to conquer challenging terrains. GETEC Getriebe Technik GmbH latest project, focusing on the sustainable controllability of clutch torque, aims to address this challenge. Let's dive into the details!

1. WHY THIS PROJECT?

Our customer's system is engineered to transfer torque between front and rear wheels. This increased torque proves invaluable in scenarios where maximum traction is vital, such as navigating deep sand, mud, or conquering steep hills. However, if the clutch doesn't perform optimally, the vehicle can't generate sufficient torque to overcome obstacles like bumpy roads, diagonal inclines, or demanding hill climbs.

The primary reasons behind non optional clutch control are:

- Mismatched relationship between actuation requirement and clutch actuation due to wear.
- Changes in clutch friction characteristics caused by thermal effects or aging.

BENCHMARK VEHICLE: DODGE RAM 1500 PICKUP TRUCK

To set a benchmark for our project, we've chosen the iconic Dodge RAM 1500 Pickup Truck. Its reputation for robust performance and torque transfer capabilities makes it the perfect reference point.

2. PROJECT KEY POINTS

The project's primary goal is to ensure sustainable controllability of clutch torque. This is achieved by developing a sophisticated System Compensation Logic. This logic will compensate changes in clutch characteristics caused by wear, thermal effects, and aging.

3. PROJECT GOALS

- Development of the System Compensation Logic system that dynamically adapts to clutch wear and other factors to maintain peak performance.
- Benchmarking of the Control Strategies of Competitors to ensure that the solution is at the forefront of torque transfer efficiency optimization. Working towards enhancing the off-road capabilities of vehicles, ensuring they can conquer any terrain with confidence!

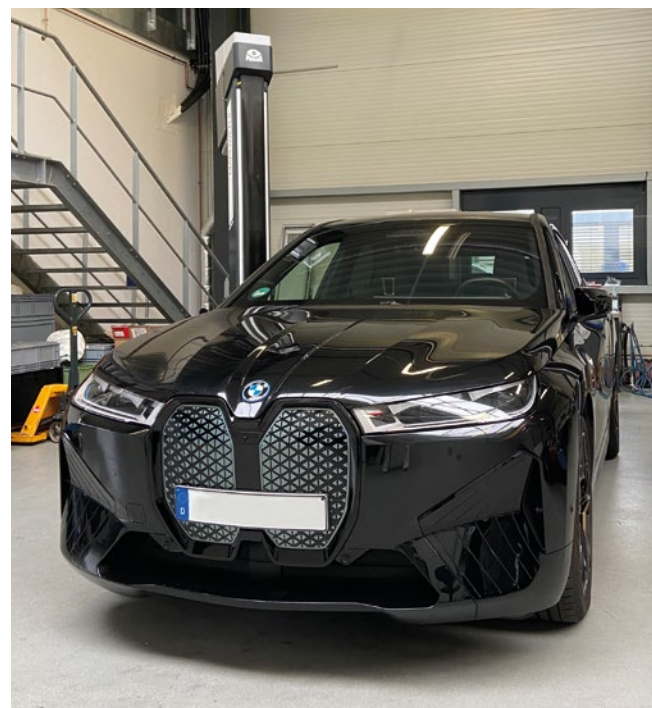
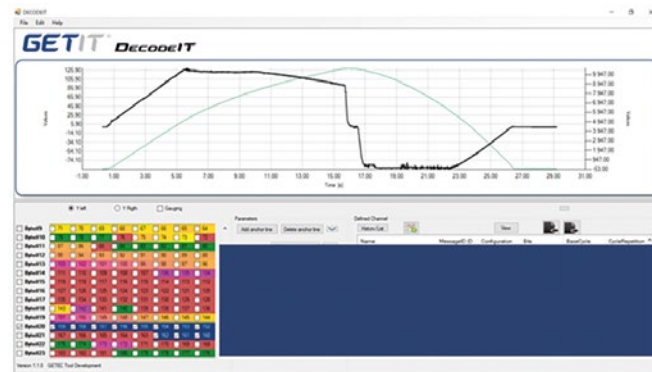


GETEC'S INSIGHTS IN BMW iX SERIES

CANDecoding is very important and necessary for successful vehicle benchmarking to measure relevant CAN or FlexRay Signals. GETEC is an experienced expert in deciphering these signals. Therefore, GETEC is using its own developed Tool DecodeIT. Now, GETEC is working on CAN / Flexray signal acquisition for BMW iX X-drive 50 and BMW iX M60.

To proceed with the project, GETEC first examined the vehicle's structure and identify existing control units to distinguish the CAN and FlexRay systems. After this the relevant cables for CAN and FlexRay connections have been tapped. Next driving manoeuvres are measured and recorded, using GETEC's DecodeIT for analysis. Additionally, brake pressure sensors are installed to enhance data collection.

Depending on signal accessibility, GETEC created a comprehensive CAN Database or an XML database for effective data management. Finally, a joint evaluation and verification session with the customer has been conducted to ensure all signals meet requirements. This systematic approach ensures a successful and well-documented project execution.



UNVEILING OUR EXPERTISE IN TESTING AUTOMATION



In this particular project, GETEC's team was tasked with performing a comprehensive test procedure specified by the customer on the **Differential, a vital component in the automotive**. The challenge was not just executing the test, but also ensuring the utmost precision and efficiency in the process.

- **Test Bench Layout:** the bench layout was optimized for this specific testing, ensuring seamless operations and pinpoint accuracy.
- **Control System:** to power the test stand, the KRATZER AUTOMATION Test Systems control system, known for its flexibility and reliability has been used. This choice was crucial to ensure the automation system's flawless performance throughout the testing process.

- **Comprehensive Test Plan:** it included critical aspects such as speed control, torque control, ramp engagement tests, and slip disconnect tests. Every detail was meticulously crafted to guarantee the most comprehensive results.
- **Post-Testing Analysis:** Data-Driven Insights, after rigorous testing, we compiled the results and presented them with detailed charts and graphs. These insights not only validated our meticulous approach but also provided valuable data for further refinement and optimization.

**AT GETEC GETRIEBE TECHNIK GMBH,
WE'RE NOT JUST ABOUT
MEETING EXPECTATIONS;
WE'RE ABOUT EXCEEDING THEM.**

This case study shows how committed we are to pushing the limits of what can be achieved in testing automation.

HOTSPOT GLOBALLY

1 Japan may offer tax relief for electric vehicle batteries and semiconductors

On August 11, Japanese Nikkei reported that Japan plans to introduce tax relief policies for domestic electric vehicle batteries and semiconductors from April 2024 to enhance economic security.

Source: Nikkei

2 CAAM: We hope that European could prudently impose restrictions on Chinese cars


On September 25, the China-Eu High-Level Economic and Trade Dialogue was held in Beijing. The China Association of Automobile Manufacturers (CAAM) said that it should be prudently for Europe to use trade remedy measures. The in-depth cooperation in new energy industry represented by electric vehicles should be encouraged, which creating a good environment for trade exchanges and sustainable development between China and Europe.

Source: Autohome

3 Dongfeng Honda released a new energy brand – LINGXI

On September 21, Dongfeng Honda held the brand renewal and new energy vehicle brand launch ceremony in Wuhan, where the new energy vehicle brand – LINGXI was officially launched. The new brand's first concept car – L, also made its global appearance. It is known that the first production car will be officially introduced to the market next year.

Source: Autohome



4 Hyundai and Kia will lower the price of electric vehicles in Korea

Hyundai and Kia separately announced plans on September 26 to lower the prices of some electric vehicles as the South Korean government increase subsidies to boost weak demand for new energy vehicles. Hyundai will lower the prices of the Ioniq 5, Ioniq 6, and Kona EV. While Kia will also lower the prices of the EV6, Niro EV, and Niro Plus. To take advantage of the government's temporary expansion of subsidies, the new price will take effect in October and last until the end of 2023.

Source: Cailian Automobile

5 Skoda officially entered the Vietnamese market

Skoda officially entered the Vietnamese market with the sale of the Kodiaq and Karoq. At the same time, the first vehicles will be imported from Europe within the year, and local full bulk (CKD) production is planned to start next year, aiming to take advantage of the synergies of Vietnam's proximity to India.

Source: Finance Network

6 South Korea's auto export volume reaches a historic high in August

On September 19, the Ministry of Trade, Industry and Energy said South Korea's auto exports totalled \$5.29 billion in August, a year-on-year growth of 28.7%, due to strong global demand for electric vehicles and other environmentally friendly vehicles. Achieved a record high in August.

Source: Gasgoo

7 India will draft new policies to attract investment in electric vehicles

On September 13, India's Commerce Minister Piyush Goyal said that India will introduce new policies to attract electric vehicle manufacturers and encourage greater investment in the sector. Goyal said the government will consult with the industry on the new policy, hoping to attract more investment and increase domestic electric vehicle production as soon as possible.

Source: Gasgoo

8 Indonesia is planning new electric vehicle incentives and attracting BYD, Tesla

Indonesia is finalizing a new set of incentives to attract investment from electric car makers, Coordinating Minister for Marine and Investment Luhut Pandjaitan said today. Meanwhile the government is in talks with major companies such as Tesla and BYD.

Source: IT Home

9 Honda: No more new cars with combustion engine in the Chinese market after 2027

On September 2, at the 19th China Automobile Industry Development (TEDA) International Forum, Honda Technology Research Industry (China) Investment Co., LTD., deputy general manager Seimura Sanmiao believes that before 2040, Honda will achieve 100% sales of pure electric vehicles and hydrogen fuel cell vehicles worldwide. By 2030, the global annual production of pure electric vehicles will increase to more than 2 million, and China will achieve it ahead of schedule. She further analysed that in order to achieve China's high standard goals, bringing forward the previously planned goal of ending the production of pure gasoline vehicles by 2030 to 2027, with no new models of pure gasoline vehicles being introduced after 2027.

Source: Jiemian News

HOTSPOT GLOBALLY

10 Mercedes-Benz announced the world's first supercharger station in Chengdu

On August 25, Mercedes-Benz presented at the 2023 (26th) Chengdu International Automobile Exhibition with 27 models covering fuel, pure electric and plug-in hybrid. And announced the acceleration of the iterative charging ecosystem, the world's first Mercedes-Benz supercharger station settled in Chengdu.

Source: d1ev

11 Toyota announced it would invest \$78 million in the Philippines

On August 22, Toyota said it would boost its investment in the Philippines by P4.4 billion (\$78.2 million) to develop two new models designed specifically for emerging markets. Toyota expects strong growth in Southeast Asia.

Source: Gasgoo

12 Tesla: More than 435,000 vehicles were delivered worldwide in the third quarter

Tesla has released the report of third-quarter production and delivery. In the third quarter of 2023, Tesla produced more than 430,000 electric vehicles worldwide and delivered more than 435,000 vehicles, an increase of about 18% and 27% respectively, ranking first in the global pure electric vehicle delivery list for a second time.

Source: Autohome

13 Chinese 20 millionth new energy vehicle rolls off the assembly line

On July 3, the production of new energy vehicles in China exceeded 20 million. This number marked a new stage of large-scale, global and high-quality development of Chinese new energy vehicles on the basis of industrialization and marketization. It's leading the transformation and upgrading of the global automobile industry to electrification and intelligence.

Source: CAAM

14 World first! BYD reached the 5 millionth new energy vehicle off the production line.

On August 9, BYD's 5 millionth new energy vehicle officially rolled off the assembly line, becoming the first company in the world to reach this milestone.

Source: BYD.com

15 Zeekr delivered more than 100,000 cars, the shortest record of innovative car companies

On April 25, the 100,000th production vehicle of Zeekr from Geely was officially delivered at the Zeekr Shenzhen delivery Center. From 0 to 100,000 units, Zeekr takes only two years, faster than other new brands at least four years.

Source: Zeekrlife.com



16 BYD appeared at the IAA MOBILITY 2023, and Seal was officially listed in Europe

On September 4, BYD unveiled Seal, Song PLUS EV Champion Edition, Yuan PLUS (overseas named BYD ATTO 3), Dolphin, Han and Denza D9 at IAA MOBILITY 2023. BYD announced the official launch of the Seal in Europe, offering two versions priced at 50,990 and 44,900 euros. The Song PLUS EV Champion Edition will be available to European consumers for the first time shortly.

Source: BYD.com

17 GAC AION and Didi plan to launch the first mass production L4 unpiloted new energy vehicle in 2025

Gac Aion New Energy Automobile Co., Ltd. signed a cooperation agreement with Didi Autonomous Driving Co., LTD.. They jointly released the unpiloted new energy mass production vehicle project - „AIDI Plan“, and announced that they will set up a joint venture company to launch the first mass-produced L4 unpiloted new energy vehicle in 2025.

Source: AION.com

18 Lixiang L9 Pro officially released in China, with retail price 429,800 RMB (55,236 EUR)

On August 3, 2023, Leading Ideal Automobile officially released the L9 Pro, with retail price of 429,800 RMB. The Leading Ideal L9 has been selected by more than 90,000 Chinese home users since its delivery last September. With the release of the Leading Ideal L9 Pro, it achieves full coverage of the 400,000-500,000 RMB price range, providing more choices for home users.

Source: Lixiang.com

19 NIO intelligent electric coupe SUV new EC6 officially launched in China

On September 15, NIO intelligent electric coupe SUV - new EC6 was officially launched, with a starting price of 358,000 yuan (46,024 EUR) (75kWh battery pack). The new EC6 standard dual motor intelligent four-drive system, the front 150kW induction motor and the rear 210kW permanent magnet motor combined, total power up to 360kW, torque up to 700N·m, in the half load condition 100 km acceleration time is only 4.4s.

Source: NIO.cn



THE BATCH SAMPLE DELIVERY OF ED1 MINI, PLANT TOUR FROM MULTIPLE CUSTOMERS

On August 29th, several customer representatives from the Guangdong region visited the eD1 MINI production line, in which three of them signed purchase contracts on the spot.

During the event, with guidance of Mr. Hocky Fu, the customer representatives sequentially visited the press workshop, welding workshop, and final assembly workshop. After the test drive of the latest eD1 MINI that comes off from production line, customers expressed their recognition of the production process and delivery status of vehicle.



„Our product is market-driven, and work backward from the market's positioning to develop the product. Starting from the handmade prototype and go through months of mold manufacturing, we aim to involve customers as early as possible in the improvement process.“
~Mr. Hocky Fu, Chairman of GETEC

Towards the end of event, customer representatives engaged in deep discussions and communicates of the application scenarios, customization, and improvement suggestions of eD1 MINI.

GETEC ED1 MINI BEER CAR MAKES AN APPEARANCE AT THE DUSA OKTOBERFEST.

Revolutionary mobile micro-economy model! GETEC launches the customized eD1 Mini Beer Car

GETEC Getriebe Technik GmbH eD1 Mini model has been transformed into an amazing beer car that is not only comfortable to drive in a wide range of scenarios but also has many amazing features. Let us take a look at this innovative model:

INNOVATIVE DESIGN

Opening the side panels of the cargo box, the 4 taps are under the ice-blue light strip. The upper and lower double openings not only provide shade and shelter from the rain but also increase the operating space of the countertop. The top of the countertop is also equipped with two small drawers for easy storage.



HUMANIZED LAYOUT

With the open back of the cargo box, you will find multi-tiered cup holders that make it easy to reach for a glass. What is more, the beer car is equipped with a cooler that can hold four 20L craft beer kegs to ensure the best flavour and taste of your beer.

But that is not all! The transformation of eD1 Mini will continue to be updated as GETEC continues to explore various application scenarios in the field of mobile consumption. Through partnership with Eternal Asia Group, GETEC can provide tai-

lormade products and services to brand merchants, operating companies, and bazaar organizers. Currently, GETEC has reached agreements with numerous companies and are in the phase of design and development.

GETEC passionately believes that soon, more innovative mobile microeconomy models will be born and can be seen more GETEC customized street vendor cars.



BATTERY SWAPPING STATION ENGINEERING FROM GETEC

GETEC Getriebe Technik GmbH is so glad to share that GETEC has reached a significant milestone in the field of electric vehicle technology. The team has successfully developed state-of-the-art battery swapping stations that can revolutionize the way we think about charging electric vehicles. With the innovative solution, vehicles can now experience a seamless battery replacement process in just four minutes!

One of the key advantages of our battery swapping technology is its versatility. It can be seamlessly integrated into various scenarios, catering to a wide range of applications.



Some potential use cases where GETEC's technology can make a significant impact:

- **Ride-Hailing Services:** Electric vehicle fleet operators can leverage our battery swapping stations to minimize downtime and maximize their earning potential. Rapid battery replacement enables drivers to quickly get back on the road, ensuring a continuous and efficient service for passengers.
- **Delivery and Logistics:** Electric delivery vehicles often face the challenge of limited charging infrastructure and long charging times. Our battery swapping stations can alleviate these concerns by providing a quick and convenient solution for battery replenishment, allowing delivery companies to maintain smooth operations and meet demanding schedules.
- **Urban Mobility Solutions:** Shared mobility providers and city transportation authorities can utilize our battery swapping technology to enhance the accessibility and reliability of electric transportation options. By offering a rapid charging alternative, we can help encourage the adoption of electric vehicles and contribute to building sustainable urban environments.

At GETEC, we are committed to meeting the unique needs of our customers. We understand that every organization has specific requirements when it comes to adopting battery-swapping technology. That's why we offer tailored solutions to address individual customer demands. Our team of experts is ready to collaborate with you and provide customized battery-swapping technology solutions that fit your business objectives.

E-MOBILITY EXPERTISE WORKSHOP

A one-day seminar with different kinds of activities, the know-how of E-Mobility, interesting sharing from GETEC's partner Software AG ERA Championship, is successfully organized by GETEC Getriebe Technik GmbH. A small surprise for our guests – self-made wraps and finally also good weather completed the day.

From the seminar our guests get the below takeaway:

"EDS Development Trends & Challenges"

from Mr. Joachim Trumpff, GETEC
a general overview about the latest development trends of electric drive systems.

"Testing the drive of tomorrow in the era of E-Mobility"

from Mr. Lucas Crampen, GETEC
how setup the testbenches and how to test e-motors, reducer transmissions, e-axles and furthermore.

"Mixed Worlds, Connected Electric Racing"

from Mr. Dieter Vanswijgenhoven, SOFTWARE AG ERA Championship
very deep insights about electric racing and the opportunities and challenges by building an own racing series.

"GETIT™ Decodelt"

from Mr. Paul Baumanns, GETEC
theoretical and practical lecture in the vehicle workshop – how to use GETEC's tool for CAN analysis.

"Testbench Tour"

from Mr. Redzo Sakanovic, GETEC
testbenches from GETEC have been visited.

And finally, "GETEC Range Extension Solutions"

from Mr. Sven Steinwascher, GETEC
the GETEC Range Extender solution is introduced as well as the newly developed battery swapping station.

The seminar was very interactive with many interesting questions and discussions. During the lunch there was the possibility for networking. Hope all the guests got the know-how that they are interested and enjoyed the time in GETEC.



SEE YOU IN THE NEXT
GETEC TECHNICAL SEMINAR.

GETEC AT THE TMC 2023 CHINA

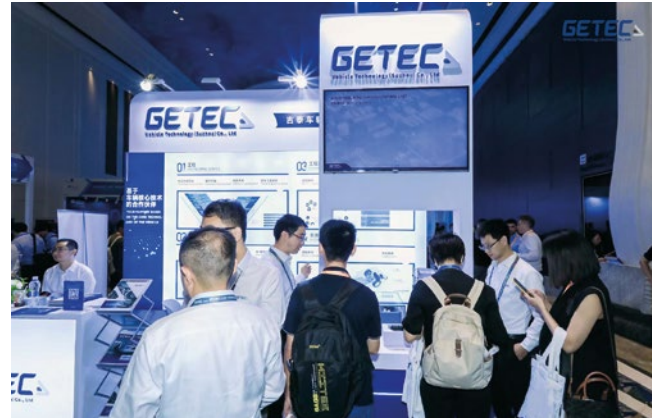
13th-14th, July 2023, the 15th „Automotive Powertrain System Technology Congress“ (referred to as TMC) took place in Qingdao, China. As a long-term partner, GETEC brought an outstanding on-site speech.

During the conference, GETEC CTO Mr. Sven Steinwascher, delivered a comprehensive presentation of „A Systematic Approach to Functional Safety Analysis and Validation of Hybrid Powertrain.“ which showed GETEC's „STPA Three-Layer Safety Model“ solution to the attendees.

Nevertheless, GETEC introduced automotive drivetrain development and testing solutions, along with new business segment – the products of core system of new energy commercial vehicles.

These products included:

- ▶ Next-generation generator for range extension systems
- ▶ Chassis control module products for new energy commercial vehicles
- ▶ Vehicle Control Unit (VCU)
- ▶ Chassis Control Unit (CCU)
- ▶ Mini Chassis Control Unit (CCU)



GETEC AT 2023 ACK GERMANY

The 2023 ACK Aachen Colloquium has come to a successful closing! It was a great gathering of innovative minds and experts from all over the world, discussing the future of sustainable mobility.

Mr. Sven Steinwascher, the CTO of GETEC Getriebe Technik GmbH who delivered a remarkable technical presentation on „S-BEV – Launch of a modular Battery Swapping Station Solution with tailored Logistic Vehicle Platform.“ His insights into this advanced technology were really inspiring!

THIS INNOVATION HOLDS THE POTENTIAL TO REVOLUTIONIZE THE WAY WE THINK ABOUT ELECTRIC VEHICLES IN EUROPE AND BEYOND.

The launch of a modular battery swapping solution, combined with a tailored logistic vehicle (LCV) platform, establishes the way for efficient and sustainable transportation.

And, of course, we look forward to the next ACK meeting, where we can once again connect, collaborate, and drive forward the future of green mobility with clean energy.

GETEC'S BENEFITS

At GETEC Getriebe Technik GmbH, we believe in taking care of our most valuable asset – our employees!

**GETEC is happy to share some fantastic benefits
GETEC offers to our team:**

- **E-Bikes for Eco Friendly Commutes:** As part of our commitment to a sustainable future, GETEC provides our employees with electric bicycles, promoting green and healthy commuting options. It's our way of saying, „Let's ride towards a greener tomorrow!“
- **Benefit Cards to Beat Rising Prices:** In today's world of increasing costs of living, GETEC stands up for our employees. Our benefit cards come with a special perk – no taxes or social security deductions! It's a little extra in the pocket to make life a bit easier during these challenging times.

Our employees wellbeing matters! Besides our annual health check-ups, GETEC is all about encouraging an active lifestyle. Our e-bikes are not just for fun – they're here to keep you fit and active. Your health is your wealth!

GETEC believes that the little things count. Our employee benefits are our way of showing how much GETEC appreciates each and every one of you. Your happiness and comfort matters to us!

It's these small gestures that create a big impact. Our dedication is to make GETEC not just a great place to work, but a place that truly cares for its people.

**GETEC IS MORE THAN JUST A COMPANY;
GETEC IS A FAMILY.**



WHY I JOINED GETEC FROM OUR DESIGN EXPERT: MR. REINHARD STURM

New, interesting tasks (not only in the automotive industry) are one of the reasons for me to work at GETEC.

In addition, there is a dynamic team with short decision-making processes and a respectful, appreciative approach to employees.



WHY I JOINED GETEC FROM OUR STUDENT WORKER: MR. KERIM BUGRA DELICAY

Embarking on a professional journey as a working student is an exciting opportunity to bridge the gap between theoretical knowledge and practical experience.

For me, the decision to join GETEC Getriebe Technik GmbH as a working student was driven by my passion for automobiles, desire to contribute to cutting-edge technology, and the invaluable chance to work alongside experts in the field. I eagerly look forward to the challenges and achievements that lie ahead as we continue contributing to a more sustainable future.



SUMMER PARTY AT GETEC GETRIEBE TECHNIK GMBH!

Our team came together for a fantastic company BBQ party, enjoying delicious food, great conversations, and fostering a stronger team. Here's to teamwork, sunshine, and a successful season ahead!



COMING EVENTS

CTI BERLIN 2023

Date: 05.-06.12.2023

cti symposium
AUTOMOTIVE · POWERTRAIN · SYSTEMS

Speech 1:

Revolutionising Logistics for Tailored Vehicle Platform by Modular Battery Swapping Station Solution

Speaker: GETEC | Mr. Sven Steinwascher

Speech Time: 14:00, 06.12.2023

Speech Venue: Session K

Speech 2:

Elevate Your Logistics and Municipal Fleet's Range with Our Range Extender Solution

Speaker: GETEC | Mr. Joachim Trumpff

Speech Time: 15:45, 6.12.2023

Speech Venue: Session N

www.drivetrain-symposium.world/de

GETEC TECHNICAL WORKSHOP

GETEC
Getriebe Technik GmbH

Date: 25.04.2024

Time: 9:30-16:00

Registration: Free attend.

1st booked 1st get.

More information you can get from our LinkedIn or website:

www.getec-gmbh.com

TESTING EXPO STUTTART



Date: 04.-06.06.2024

Booth No.: 1584

www.testing-expo.com/europe/en



Headquarters

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