



Driving Innovation with a Silicon Valley Spirit

About Der.Engineer



About Der.Engineer



My name is Julian Ronnenberg, I am an Automotive Engineer, freelancer and the founder of Der.Engineer.

After 15 years of Global Automotive Industry experience perfecting vehicles for the Volkswagen Group in Germany, UK and Silicon Valley, I decided to create Der.Engineer.

I have worked in a variety of development fields, including Fuel Cell Testing and Function Development, Mobile Online Services, Connected Infotainment and Pre-Development Function Integration. My background has helped me cultivate an open minded and innovative way of driving the future of Engineering!

For further Information please feel free to check out my CV or Linked In Profile



Der.Engineer – your expert consultant in Engineering Services!

My Expertise

My Expertise



Specialized in a variety of technical fields. Able to formulate enhanced solutions in the following:

Testing and Validation

- Test and Validation management
- Test resource management and technical adaptation.

System and Functions Development

- Robust system architectures from concept to production.
- Failure analysis expertise for continuous improvement.

Technical Product Consultation

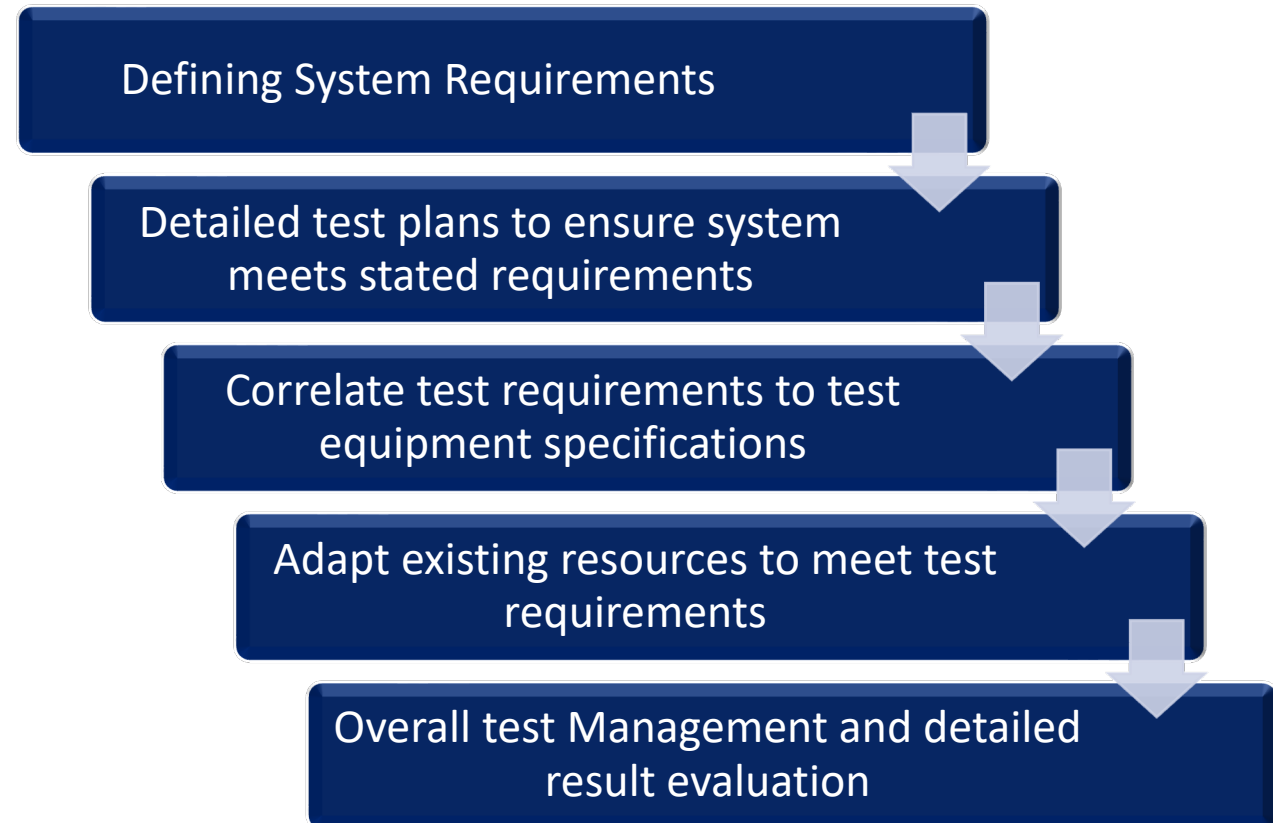
- Product Consulting in technological matters
- Supplier Steering and Scouting for innovative solutions

Rapid Prototyping and Bus Network

- Developing technical concepts and prototyping for proof of concept
- Seamless communication via robust Bus Networks

Testing and Validation

Testing and Validation is an essential step of the development process. With my expertise in testing and proficiency with measurement methods and equipment, I will ensure the best result in all steps within the testing process.



Testing and Validation

Tailored testing ensures precision and efficiency

My outstanding profile as an Automotive Engineer and my motor mechanic qualification gives me the ability to both understand engineering process and hands-on experience in modifying systems.

I will be able to coordinate and plan the entirety of the test process including any modifications to ensure test requirements are adequately fulfilled.

During my time at Volkswagen I oversaw Volkswagens Fuel Cell test facility. Due to the very dynamic development in such an innovative field as Fuel Cells it was always a challenge to create new ideas to fulfil the test requirements. In collaboration with suppliers, I have modified the Hardware as well as the Bus Communication between System and Test Resource.



Testing and Validation

System Improvement through Efficient Test Management

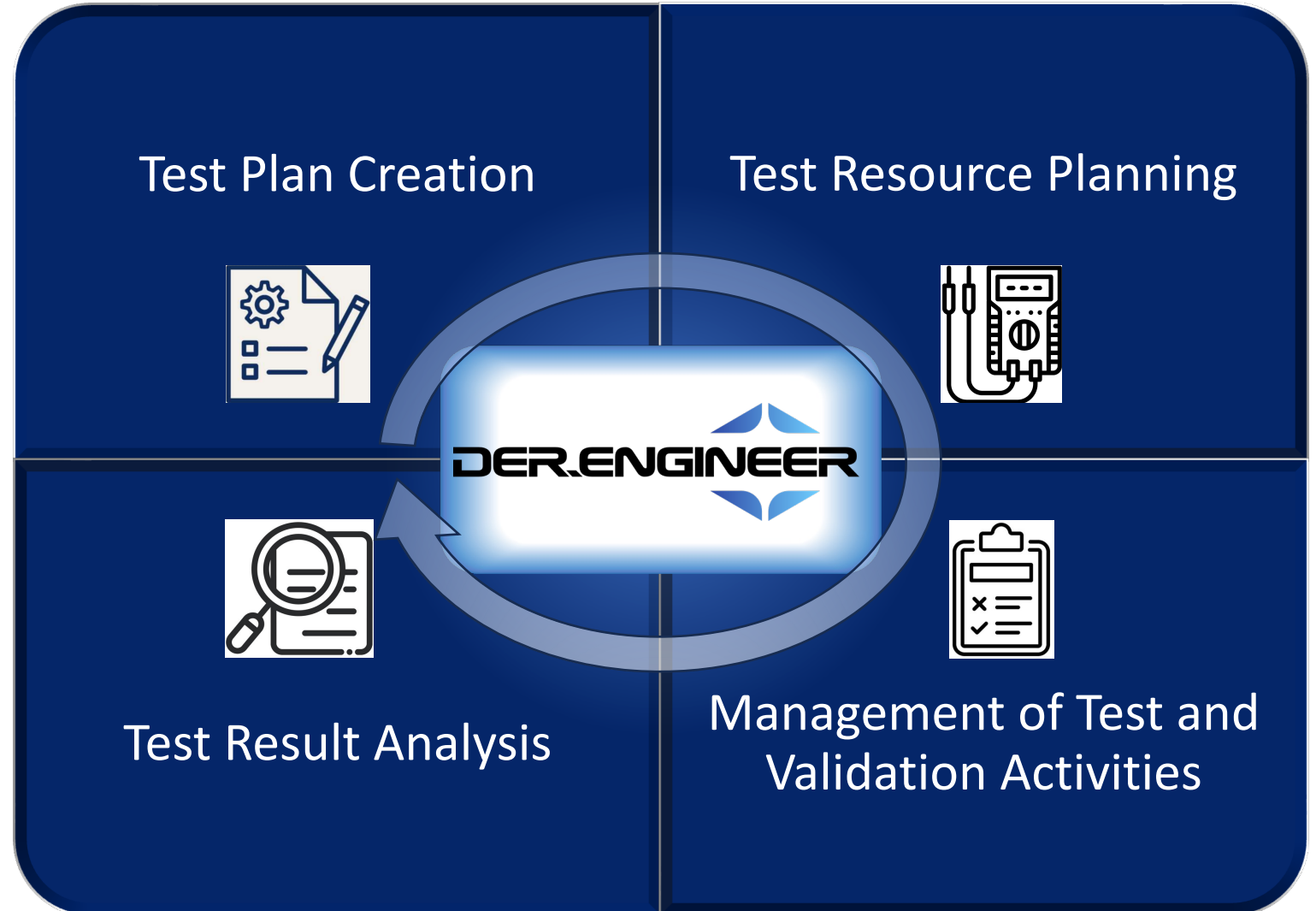
At Volkswagen I have been successfully been in charge of several testing and validation activities. At Volkswagen, I managed the final approval before start of production of the Online Connectivity Unit within the North American market, I have proofed the ability to run successfully a product final validation.

Part if this task was to manage test facilities in the US, creating test plans based on requirements, and escalating as well as reporting test results to upper management.

With my deep technical knowledge and understanding, as well as my experience of managing time critical testing activities right before Start of Production, I'll be able to manage your test activities in all different kinds of tasks

Testing and Validation

Testing Service I cover



System and Function Development



In-depth failure analysis to support rapid development

I will support your team with a deep knowledge in system and functional failure analysis to ensure you can benefit from lessons learned.

Over my 7 years in the fuel cell research of Volkswagen AG in Germany, I developed a deep understanding of systems and functions. In the research center I was involved in failure analysis of systems and functions, analyzing the root cause of a functional or system failure to defining the right countermeasures to improve the function in question.

Due to my experience in Function Development, System Engineering and Bus Communication I will support your team on a wide range of failure analysis and lead the failure analysis to a sustainable solution.

In addition, I can teach your team Can Bus Analysis tools as well as the latest measurement equipment.

System and Function Development



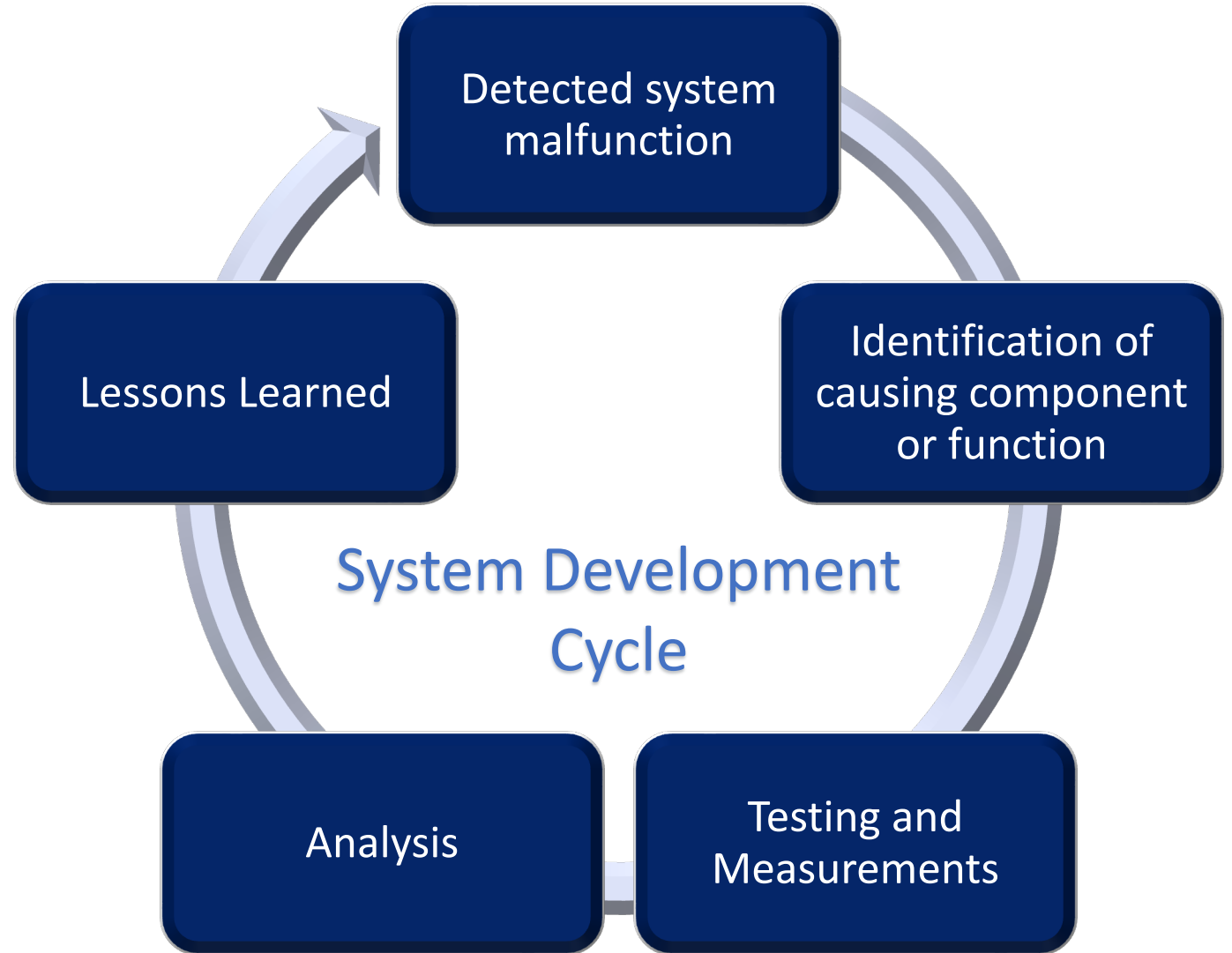
This technical Failure Analysis includes:

- Hardware failures
- Function failures
- Bus Network Communication failures

Extensive experience with the following Failure Analysis Tools

- INCA (Calibration SW and analyzing SW)
- Matlab/Simulink
- JBeam (Template based measure analysis)
- CanOE/CanAnalyzer by Vector and Peak Tools (Network analyzing tools)
- Ethernet Analyzing Tools
- Volkswagen Group specific Analysis Tools (Odis, Idex, CP-Tool, etc...)

System and Function Development



Product Consultation

Product Consulting in technology matters

During my time working in the Silicon Valley, USA as well as being part of future technology projects like Fuel Cells or Mobile Online Services, I was influenced by these highly innovative work environments. I have cultivated an out of the box thinking and future orientated mindset to help build a more efficient and innovative future.

I will also share my experience with the team, developing a future minded team creating cutting-edge technology. With the combination of having a broad horizon in the development field and a future oriented mindset I would support your team with brainstorming new innovative products that are possible and feasible within today's technological limits.

In addition to that I would consult on all the necessary steps to implement these idea into a prototype for a proof the concept.

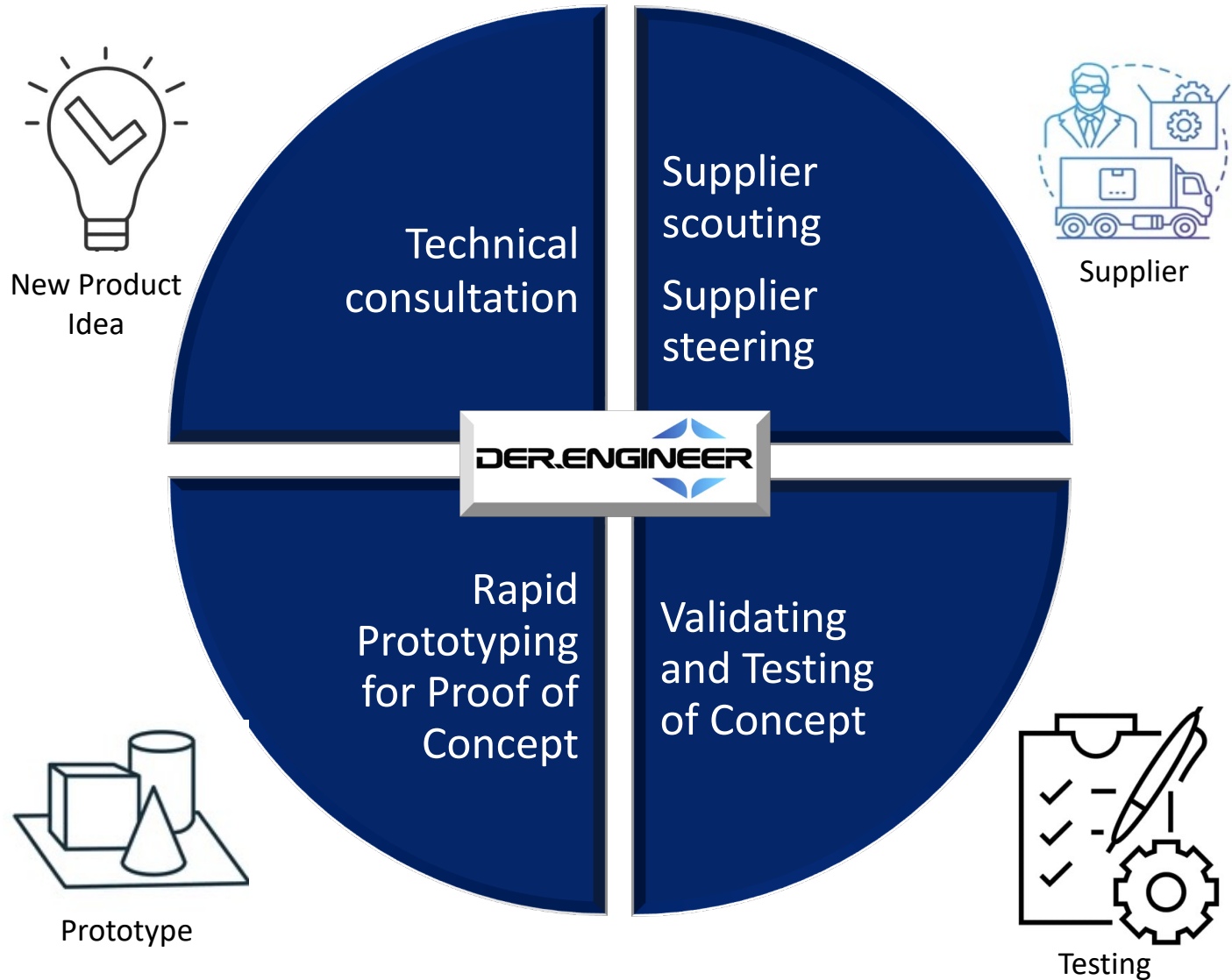
Product Consultation

Supplier Steering and Scouting for innovative solutions

With my expertise I will support you in finding the right supplier or partner to bring you a step forward towards the future.

In addition to scouting potential suppliers, reviewing their technical product specifications against your requirements, I will also help you steer the process. By guiding the supplier with technical instruction based on your requirements I will ensure smooth collaboration and communication with potential suppliers. During my career I have gained a lot of experience in collaboration with supplier i.e. I coordinated suppliers to maintain or adopt fuel cell test benches or collaborated with supplier for building up a functional prototype.

Product Consultation



Rapid Prototyping and Bus Networks

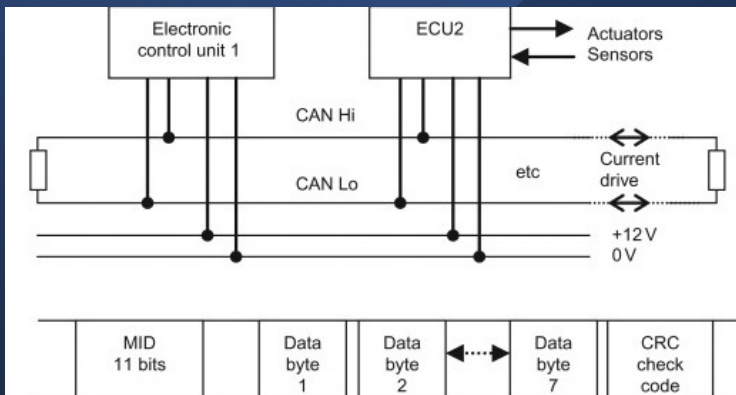
From an innovative idea to a functional prototype

With my deep knowledge about a wide range of system and function development, I will support your team in creating technical concepts from the raw idea to improve existing systems.

As an Sr. Integration Engineer, I have integrated newly technologies into test vehicles, test benches, and have built up prototypes for proof of concepts.

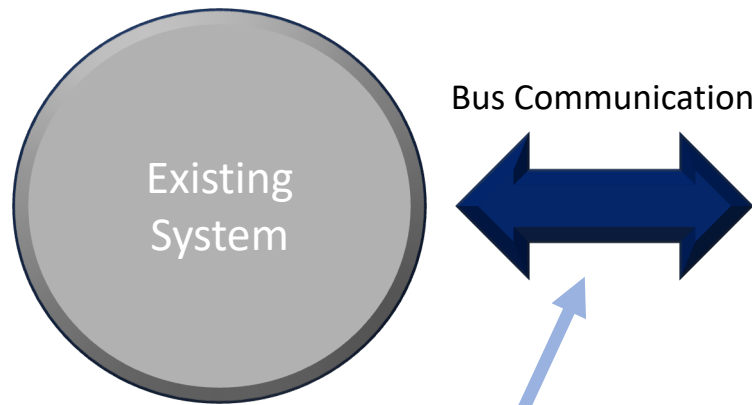
This included the setup of new Can and Ethernet Bus Networks as well as trouble shooting of existing Bus communication networks. Creating the electrical system around it was also part of my tasks.

Collaborating with Software Engineers to create a functional prototype with an innovative new function was part of my daily life in the Silicon Valley. I led Software Engineers to properly communicate with the vehicle and created technical concepts to integrate these features.



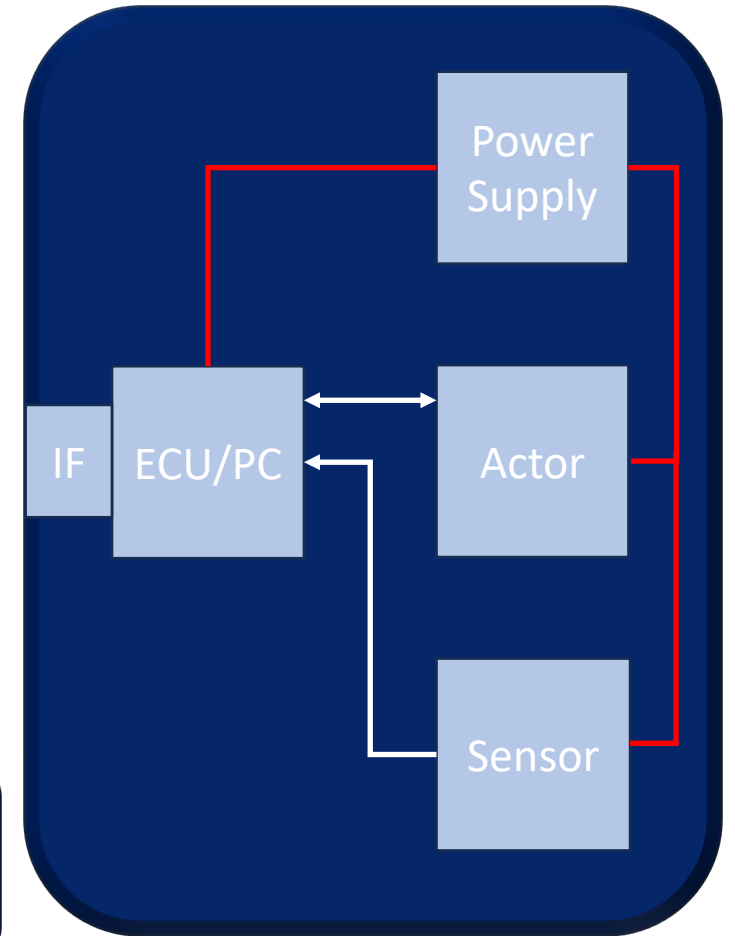
Rapid Prototyping and Bus Networks

Example Prototype Integration



- Bus Network Setup
- Determining the correct signals for proper interaction between System and Prototype

Prototype System



My Focus

Highly specialized in Electronics and System Engineering

With about 15 years of experience within the Automotive Industry and an Automotive Engineering Degree I am highly specialized in Vehicle Development. Automotive Electronic Components, Testing and Validation, System Engineering, and Network Communication are my areas of expertise. However, my expertise can also be applied outside the Automotive industry. The mentioned Engineering Disciplines are applicable across diverse development and research branches.

Don't hesitate to contact me for further questions and inquiries!



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Contact me today: contact@Der.Engineer

 Lets connect!