



AutoID / RFID



Embedded Solutions

Reference report

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About SIGMA

As a reputable system house in Saxony SIGMA Chemnitz GmbH operates as system integrator and partner of well-known Providers in the IT sector. Our over 80 employees at the Chemnitz and Dresden sites form a competent team at the location Chemnitz. With expertise, competence and almost 30 years of experience we offer our customers reliable and powerful solutions.

About our Team

The Team of SIGMA Chemnitz works hardware, platform and processor independent and can refer to a large number of references around Windows Embedded, Embedded Linux and Android.

Our customers appreciate us as competent, innovative, and highly skilled partner, who will support you from the first problem analysis committed to the goal accompanied. Many years of project experience of our employees form the foundation for effective solutions on the latest state of the art technology. Especially in the field of Windows Embedded we number amongst the last, who still provide development services for this purpose.

Technical Facts

Operation system:

- Linux & Win10 IoT Core

Processor:

- Raspberry Pi & i.MX8M Mini

Share of SIGMA

Embedded operation system:

- Complete implementation within the scope of an internal R&D project

AI solutions for smart charging of E-cars



About SIGMA Chemnitz GmbH

SIGMA Gesellschaft für Systementwicklung u. Datenverarb. mbH has been operating on the market since 1990 as an IT service provider, which can comprehensively cover all areas of the operational software, hardware and automation landscape. All of the approximately 80 employees are highly qualified, motivated and can refer to appropriate references. The company consists of several business areas, including AutoID / RFID solutions; embedded solutions; IT security and infrastructures; SAP SME solutions and the consulting, software and development division.

About AI

The topic of artificial intelligence is increasingly dominating our everyday lives. Therefore, we deal with the new developments in the field of AI on embedded systems. We build on our previous experience and include it in new developments. In this environment, we worked exemplarily on the optimized charging of batteries for e-cars, taking into account a wide range of different input variables and parameters. These are, for example, current weather, weather forecast for the next days, expected or planned trips and destinations of our company cars, driving behavior, output of our in-house solar system and more with the help of self-learning algorithms. In addition to the controllable wallbox, hardware platforms with NXP i.MX8M Mini and Windows 10 IoT Core and Raspberry Pi 3B and 4 under Linux were used as hardware and software.

The result...

„The test phase with various vehicles went off to our complete satisfaction and important conclusions were drawn for further projects like this.“