Modern vehicles and machines need a solid power supply, specifically designed in shape of a vehicle power electronics/electronics. Anyway, vehicle manufacturers most likely reduce the number of suppliers constantly and source hardware, development work, and programming out of one hand at best. Johannes J. Miunske, who did found his company in 1996, now with 70 employees, is exactly working towards that goal. It began with trading of electric vehicle components. Pretty soon customer’s desires led to services like the completion of assembled units. Smaller services led to developments of more complex systems, the assortment was steadily growing. Miunske finally kept the distribution of at least eight renowned partners but, the development of complex systems and components for trucks, special vehicles and mobile machines grew up to a solid second column.

The smart central electronics in a vehicle is the centerpiece for communication and power distribution, according to electronics team leader Dipl. Ing. (FH) Sebastian Mueller. Besides power

What have a fire-patrol vehicle in the Netherlands, a windrow turner in France, and an ambulance in Poland in common? In the first glance, it is not much. But the central electrics come from Grosspostwitz nearby Bautzen in Saxony (Germany).
distribution and switching of various loads and power circuits, the protection, and diagnosis of possible failures are vital to the system. Due to Miunske's wide spread know-how within vehicle electronics combined with a strong development competence they can provide a short-term realization of customer specific demands. The experts from the Oberlausitz region work 'on the spot' as the brand claim expresses. This incorporates development, production, and delivery just-in-sequence for their global customership.

Figure 3: The development time of the all new central electronics for Backhus took no more than four weeks. The approved and ready-to-mount PCB's are now manufactured in small and medium quantities which means about 60 annually (Photo: Miunske)

A typical example is the company Eggersmann, located in Halle, NW. Their recycling machines, brand name Backhus, are renown worldwide and built for removing recycling material. Both companies cooperate since several years regarding these caterpillar driven machines. Instead of two free programmable central electronics modules an electronic solution had been found.

Sebastian Mueller: Although the compost remover is quite large space is the challenge. The electronics should be well accessible mounted, protected and the generated...
Figure 4: The CAD-drawing shows the modular concept of an ambulance's central electronics; Depending the project demands the range of functionalities can be modular varied (Photo: Miunske)
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