

**Engineering & Design
by Fabrimex Systems**

Engineering and Design

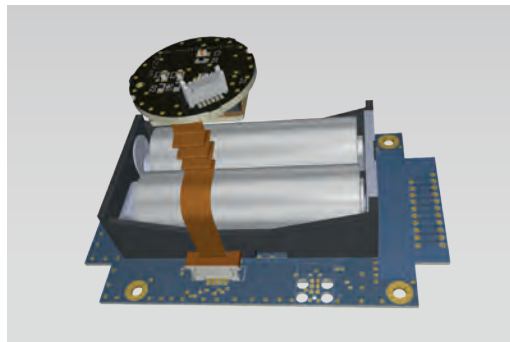
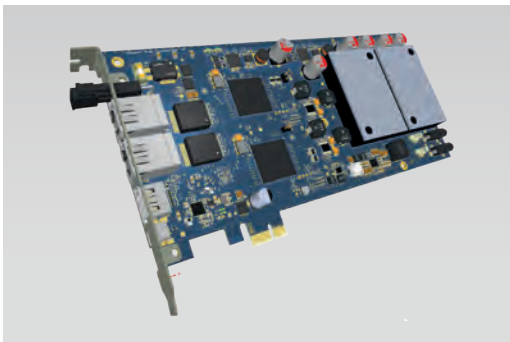
Welcome to our engineering team, where innovation meets excellence. As a premier provider of cutting-edge engineering solutions, we pride ourselves on our unwavering commitment to delivering transformative results for our clients.

We understand the complexities of modern engineering challenges and that is why we've assembled a team of top-tier professionals who excel in their respective fields. From custom board designs to 3D designs and tailored machine vision solutions, we offer a comprehensive suite of services tailored to meet the unique needs of each client.

What sets us apart is our relentless pursuit of innovation and our dedication to pushing the boundaries of what's possible. Our engineers possess a wealth of experience and expertise, coupled with a deep understanding of industry best practices and the latest technological advancements.

But it is not just about technical proficiency – it is about collaboration and communication. We prioritize building strong partnerships with our clients, ensuring that we truly understand your needs and goals every step of the way.

You can trust that your project is in capable hands. Let us turn your ideas into reality and propel your business forward with our unmatched engineering solutions. Contact us today to discover how we can bring your vision to life.



Full Product Design



Hardware Development

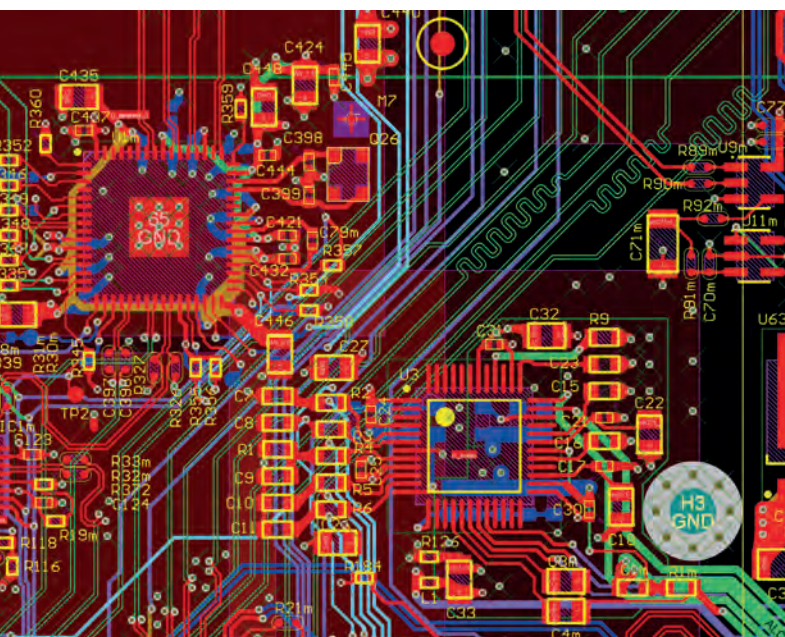
From straightforward PCBs to intricate devices, spanning from single-layer to nested via designs, our team is equipped to handle projects of any scale or complexity.

With our profound expertise in cutting-edge designs, you can have full confidence that your hardware will not only function reliably in the field for years to come but will also seamlessly comply with all requisite regulations, including rigorous EMI testing, from the outset.

Technological realms explored in our previous endeavors encompass:

- Low-range communication protocols such as Bluetooth and LoRa
- High-range communication protocols including power line communication and HDBaseT over fiber
- Display controls such as LVDS and eDP
- Computing interfaces like COM Express and SMARC
- Power conversion and transmission, encompassing technologies like Power over Ethernet.

In collaboration with our extensive network of partners, we are equipped to support you in bringing your project to life. Our services encompass the entire product lifecycle, encompassing obsolescence management, meticulous product documentation and attainment of certifications.



Software

Discover unparalleled software solutions tailored to elevate your projects to new heights. Our interdisciplinary teams are adept at tackling a diverse array of software endeavors.

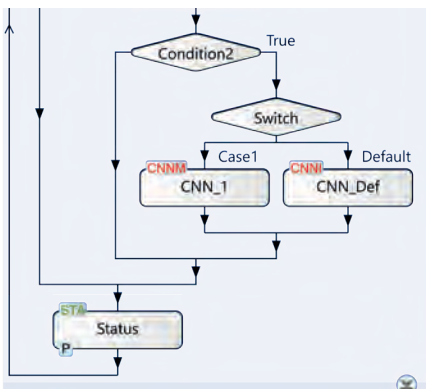
Whether you require a dynamic link library (DLL) for your cutting-edge machine vision project, a bespoke Android build, implementation of Windows on ARM platforms or compatibility with legacy platforms such as DOS or Windows XP on modern hardware, our seasoned experts are poised to bring your vision to life.

To invigorate your machine vision initiatives, we harness the power of Zebra's software framework, formerly known as the Matrox Imaging Library.

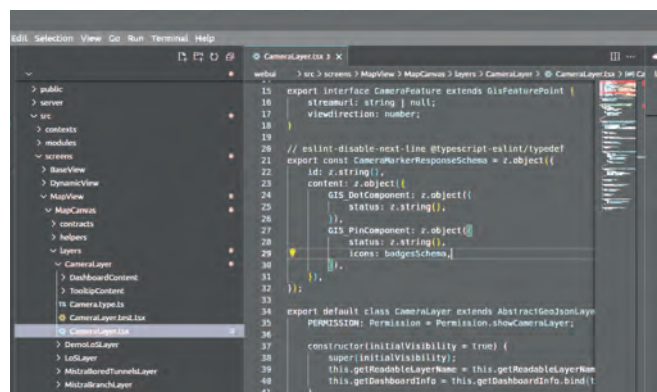
Recent projects covering major technological fields:

- Implementation of Windows XP virtualization on Linux for compatibility with 11th Generation Intel CPUs.
- Development of a BACnet to Modbus gateway on Yocto platform, integrated with a Java-based server application.
- Design and deployment of Java-based HMI applications across various platforms, including custom builds for Android.
- Creation of firmware, drivers and tailored testing software using C/C++.
- Deployment of optical inspection systems encompassing GUIs and real-time control functionalities.

Trust in our expertise to propel your projects forward with precision and innovation.



Zebra Aurora Design Assistant



Visual Studio Developer View

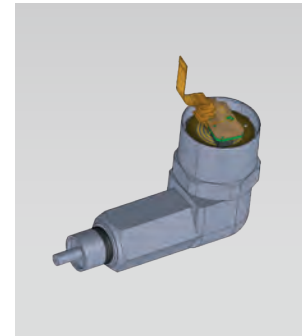
3D Design

In addition to our expertise in hardware and software development, we are committed to delivering a detailed finish for all your products.

Whether you require customized housings or specialized components, we offer comprehensive solutions. Our capabilities extend from CAD designs to prototyping, with in-house printing facilities facilitating rapid iteration. Furthermore, in collaboration with our esteemed partners, we ensure seamless scalability for high-volume production requirements.



CAD Assistant



Smart Sensor

Fabrimex Systems "Successful Project Implementations"



Automated Food Production

Together with our partner Kaiser Engineering, we were able to fully automate the cutting, packaging and weighing for one of the biggest cheese manufacturers in Switzerland.



Read the story now!



Cutting-Edge Technology for Monitoring

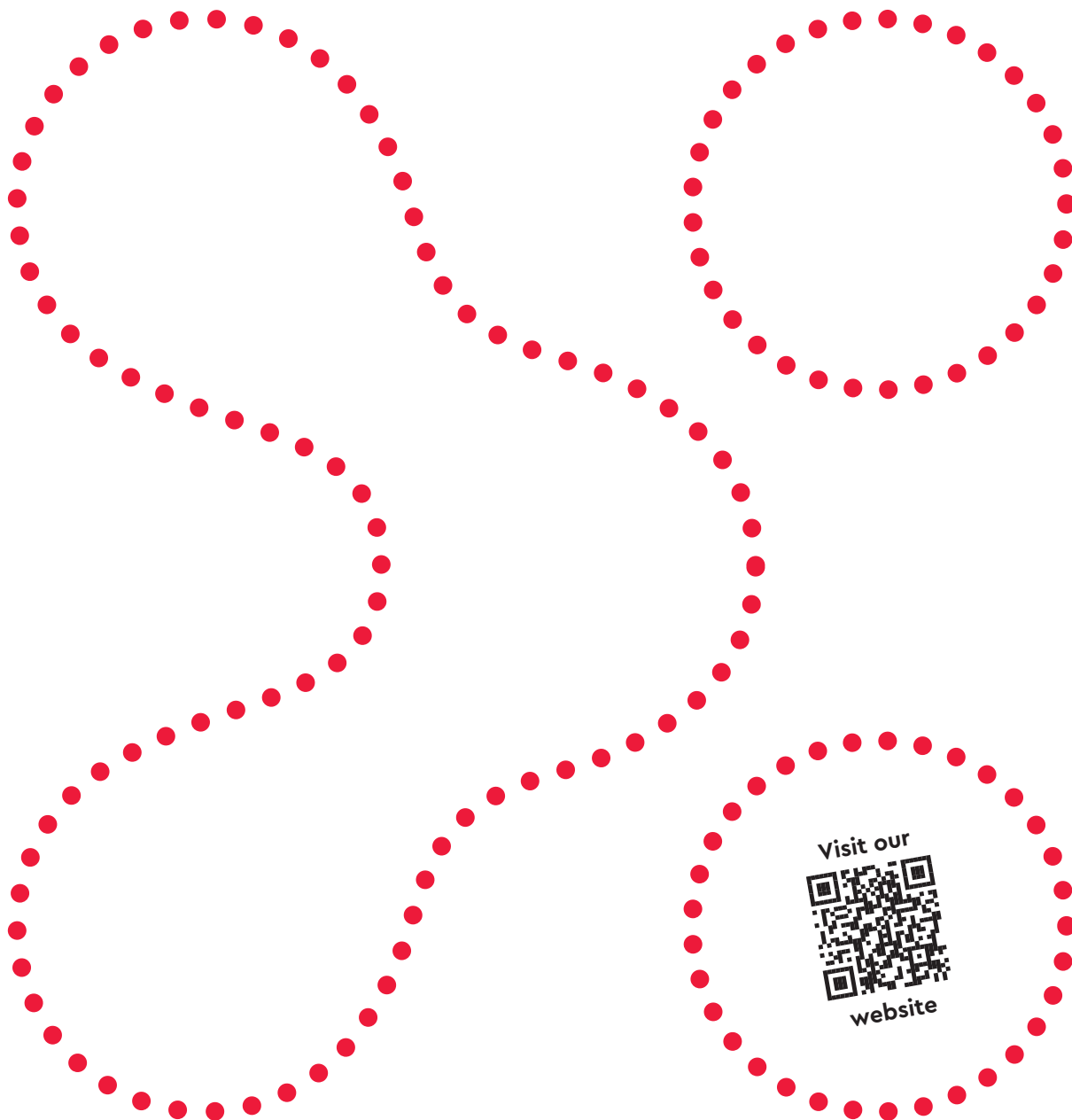
To reliably monitor and detect avalanches and land slides in real time, the team of Geopraevent chose our experts to build a reliable outdoor system.



Read the story now!



Read more success stories on our website:
www.fabrimex-systems.ch/stories



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