

Your Technology Partner

Digital Signal Processing &
Embedded Systems

20+ Years
of Turning Technology
into Products



d.stream
engineering

We deliver:

- Embedded-Software
- Firmware & System Software
- RTOS & Embedded Linux
- Runtime Optimization
- Embedded AI / Vision AI
- Hardware Development



Fast-Tracking Your Project



Automotive / Camera Systems
Camera-Mirror-Systems, ADAS



Embedded AI / Vision AI
Autonomous Driving, Object Recognition



Railway Infrastructure & IoT
Predictive Maintenance of Switches

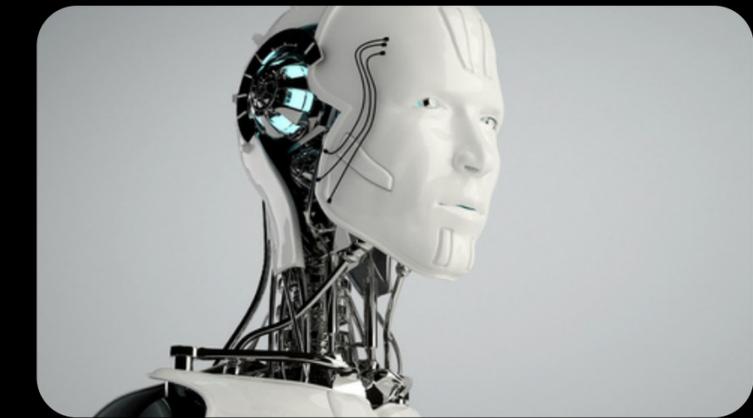


Traffic Monitoring
Radar Speed Measurement

**Our Industries,
Projects,
Expertise**



Audio Technology
Multi-Room-Audio, ANC, High-End



Robotics
Robotic Arm, ROS2

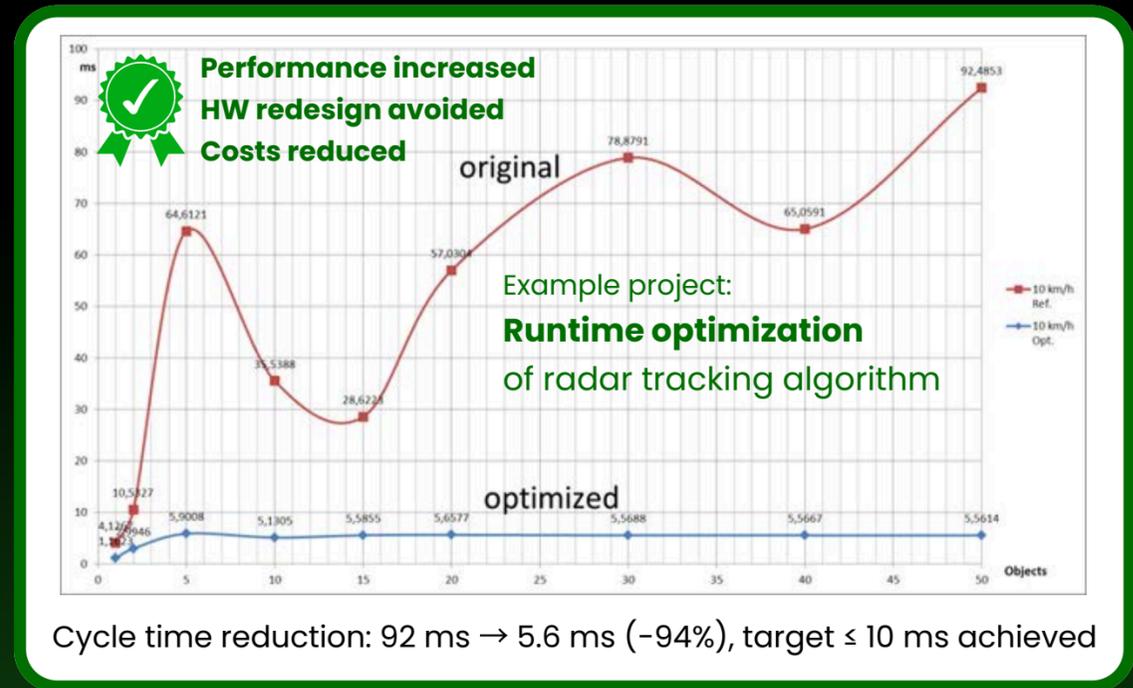
References

Real Solutions. Proven Success.
Discover how d.stream drives innovation.

Product development from system design to pre-development and up to series production.



Customers who rely on our expertise —
Innovation. Trust. Success.



- ✓ Development of 2 radar systems
- ✓ 2 d.stream engineers
- ✓ 5+ years of success

in Recommendation  **Applied TI SoC expertise**
Reached series maturity (2x)
Resolved video instability issues

David Stauch · 1.
Manager End User Functions at Valeo
17. November 2021, David Stauch war Kund:in von Milan Bajza.

Milan and his team at d.stream supported us for many years with embedded software development for camera-based systems on different Texas Instruments SOC (TDA3, TDA2p), developing prototype systems on their own and ASIL B rated serial automotive software as part of a bigger team. They impressed us with their deep knowledge of the complete image chain of the TDA and their excellent development skills in C and C++, also developing low-level drivers for many different components, a bootloader, and the build system. Milan and his team were highly committed, and delivered well-working software also in difficult circumstances with a lot of pressure. They thus helped us to get through highly challenging project situations and bring our products to the market.

- ✓ Two camera systems developed
- ✓ 5 d.stream engineers
- ✓ Pre-development → series development → SOP
- ✓ Supported internal developers
- ✓ 5+ years of success

Proven Expertise

Benefit from 20 years of concentrated embedded software experience

Our commitment to software development:

- ✓ stable
- ✓ high-performance
- ✓ real-time precision
- ✓ scalable



Software

Innovative product development with proven and cutting-edge technologies:

- Embedded Linux (Yocto), RTOS
- Real-time applications
- Digital signal processing
- Runtime optimization
- Vision AI / Edge AI
- Embedded security
- Multi-core software
- Complete video/camera pipeline
- Drivers, firmware & system software
- Bootloaders

Hardware

Over 20 years of experience in designing hardware and bringing it to life with real-time software:

- System design and hardware development
- Efficient programming for ARM, DSP, SoC, μ C
- Optimized utilization of processor functions
- Specialization in Texas Instruments processors 
- Rapid prototyping with EVMs
- Stable integration of sensors & actuators
- In-house measurement technology
- Commissioning and debugging of customer boards
- Development of HW test systems

Soft Skills

The right mindset and seamless team integration drive success:

- Tightly-knit Berlin team with product focus
- Proactive, transparent communication
- Expertise that spreads across the team
- Future-focused, solution-driven, efficient
- Seamless handover & reliable SOP support
- Passion for development that makes a difference

Technologies and Standards

Every project combines established and emerging technologies and standards:

- Automotive and industrial standards
- Multimedia, graphics/3D, and audio frameworks
- AI application standards
- Operating systems for robotics and IoT
- Source code safety standards
- Quality assurance and functional safety

Team

Our team of 10 highly skilled, tightly-knit developers delivers innovative embedded solutions

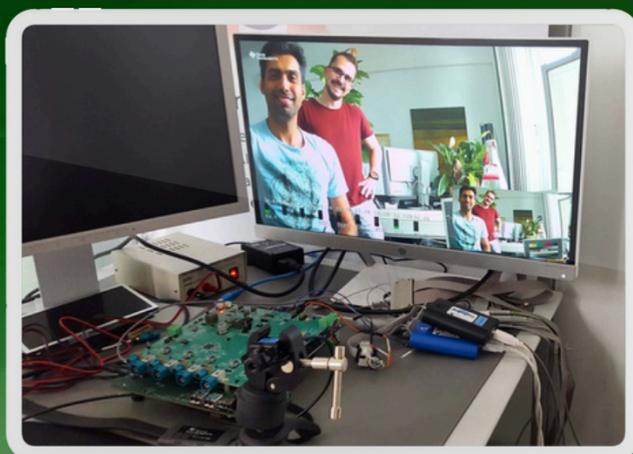
efficient, forward-looking, and always with a clear product focus



New Challenges

Let's talk about your next project.

We'll showcase relevant demos and project results in a short video call.



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