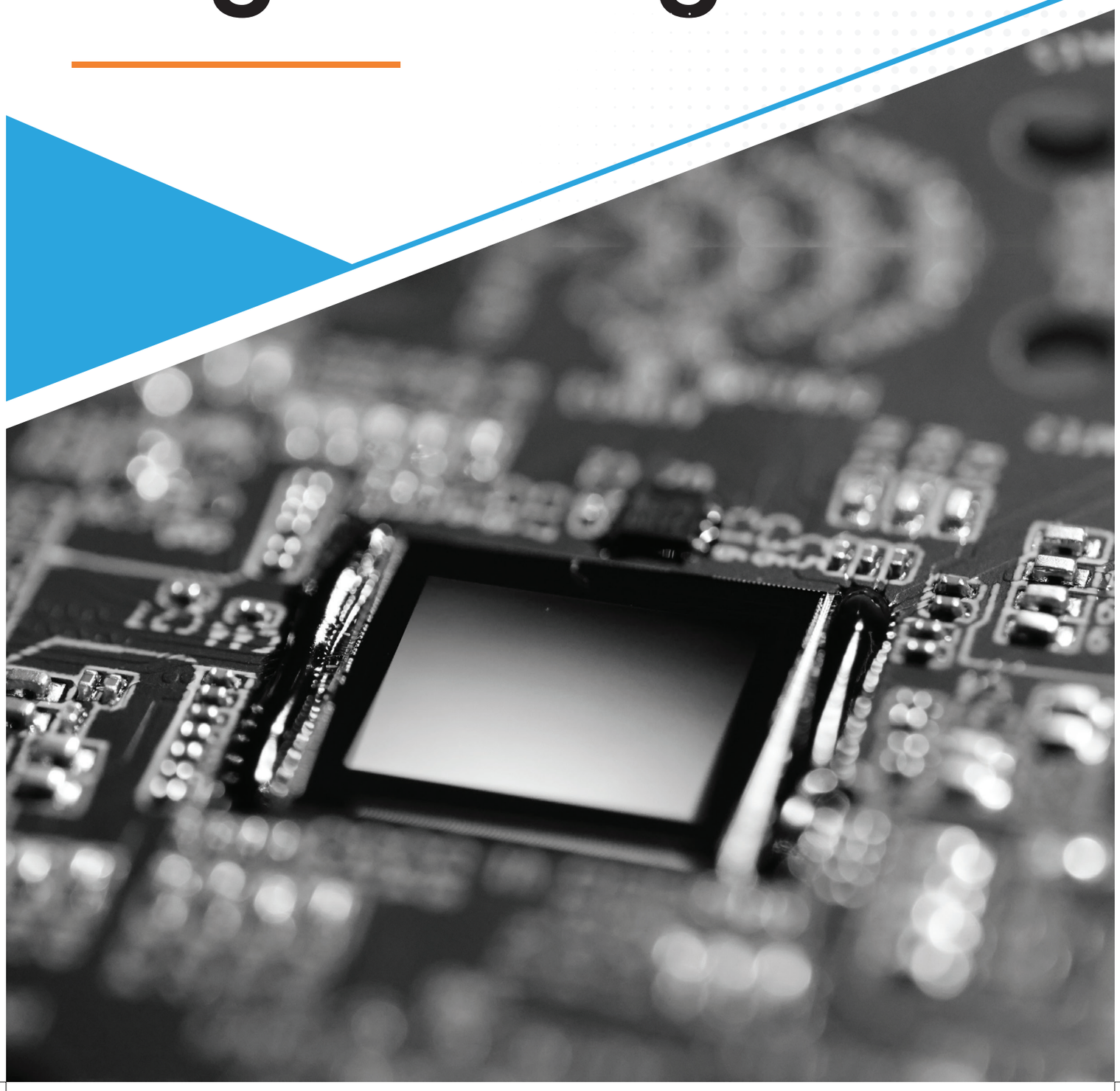
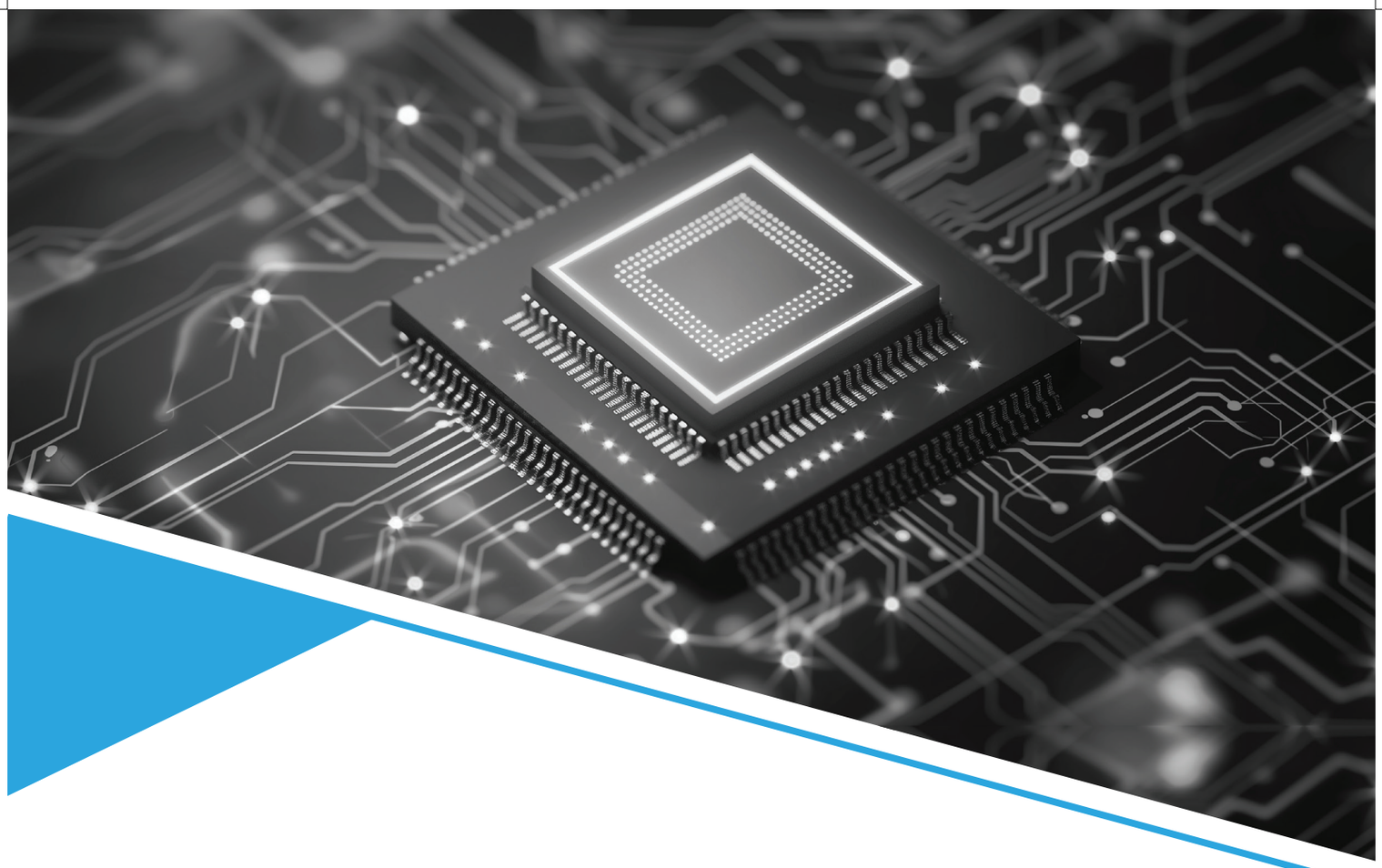
TESSOLVE
A **HERO ELECTRONIX** VENTURE

Custom Silicon Engineering





From Concept to Production-Ready SoCs

Developing custom silicon requires more than technical capability, it demands structured execution, architectural clarity, and accountability across the entire lifecycle. Tessolve delivers turnkey custom silicon development, from architecture definition to design, validation, and production support.
Backed by over two decades of semiconductor engineering experience, we enable scalable, high-performance SoC and ASIC solutions across Automotive ADAS, HPC, Vision, Industrial, IoT, and Connected Devices.

End-to-End Custom Silicon Development

Tessolve supports the complete silicon lifecycle:

- Concept definition and architecture development
- RTL design and subsystem integration
- Verification and physical implementation
- Embedded software and firmware enablement
- System engineering and validation
- Post-silicon validation and production support

Each program is structured to provide transparency, technical rigor, and single-point accountability from specification through production.

Engineering Infrastructure Built for Scale

Custom silicon programs demand compute power, tool integration, and process discipline.
Tessolve supports turnkey execution with:

- Structured, tool-agnostic development methodology
- Integration with major EDA tool chains
- Secure, high-performance in-house compute infrastructure
- Scalable simulation and verification environments

This engineering framework enables faster design cycles while maintaining strict quality and execution standards.

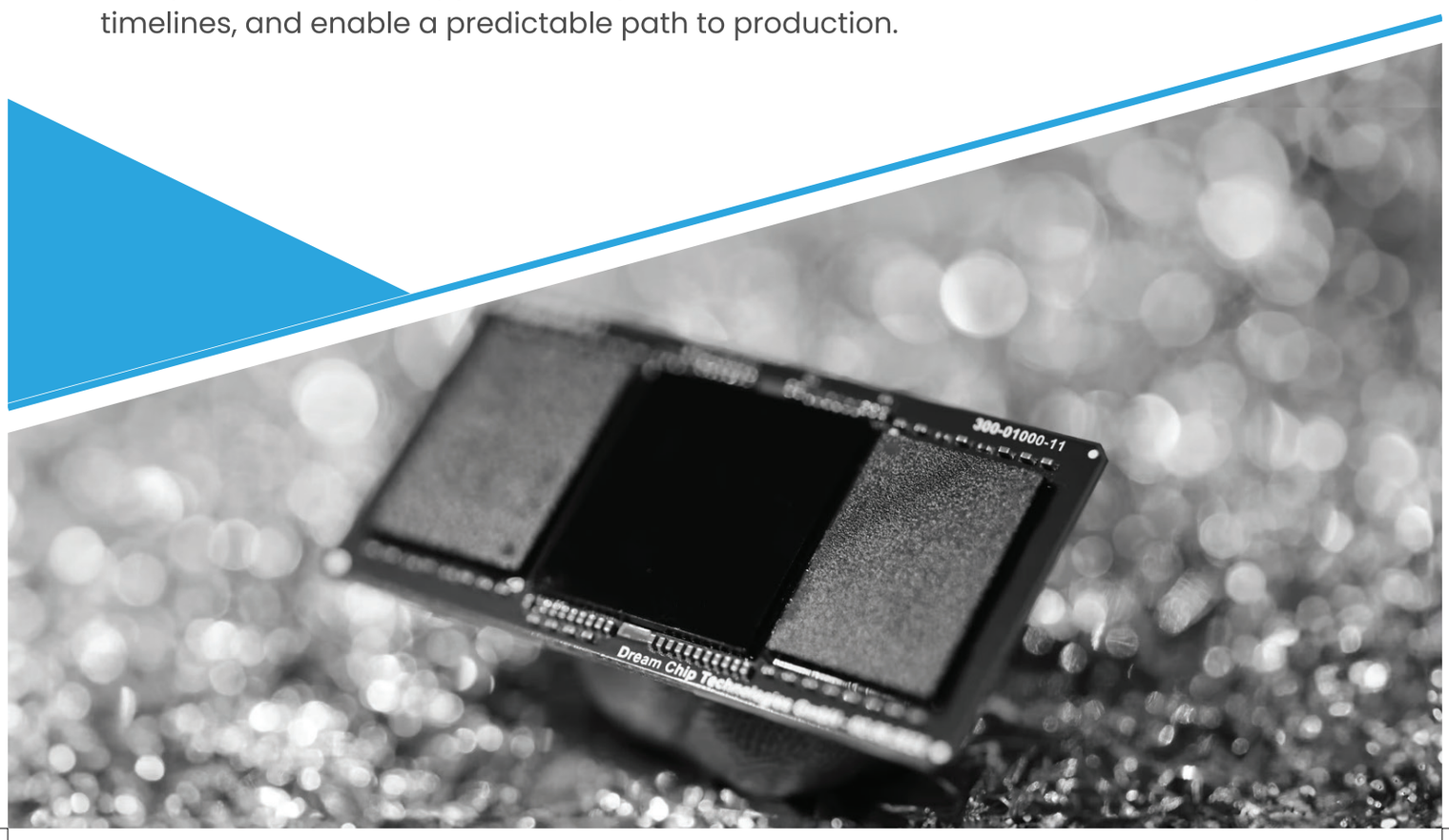
Accelerating Custom SoC Development

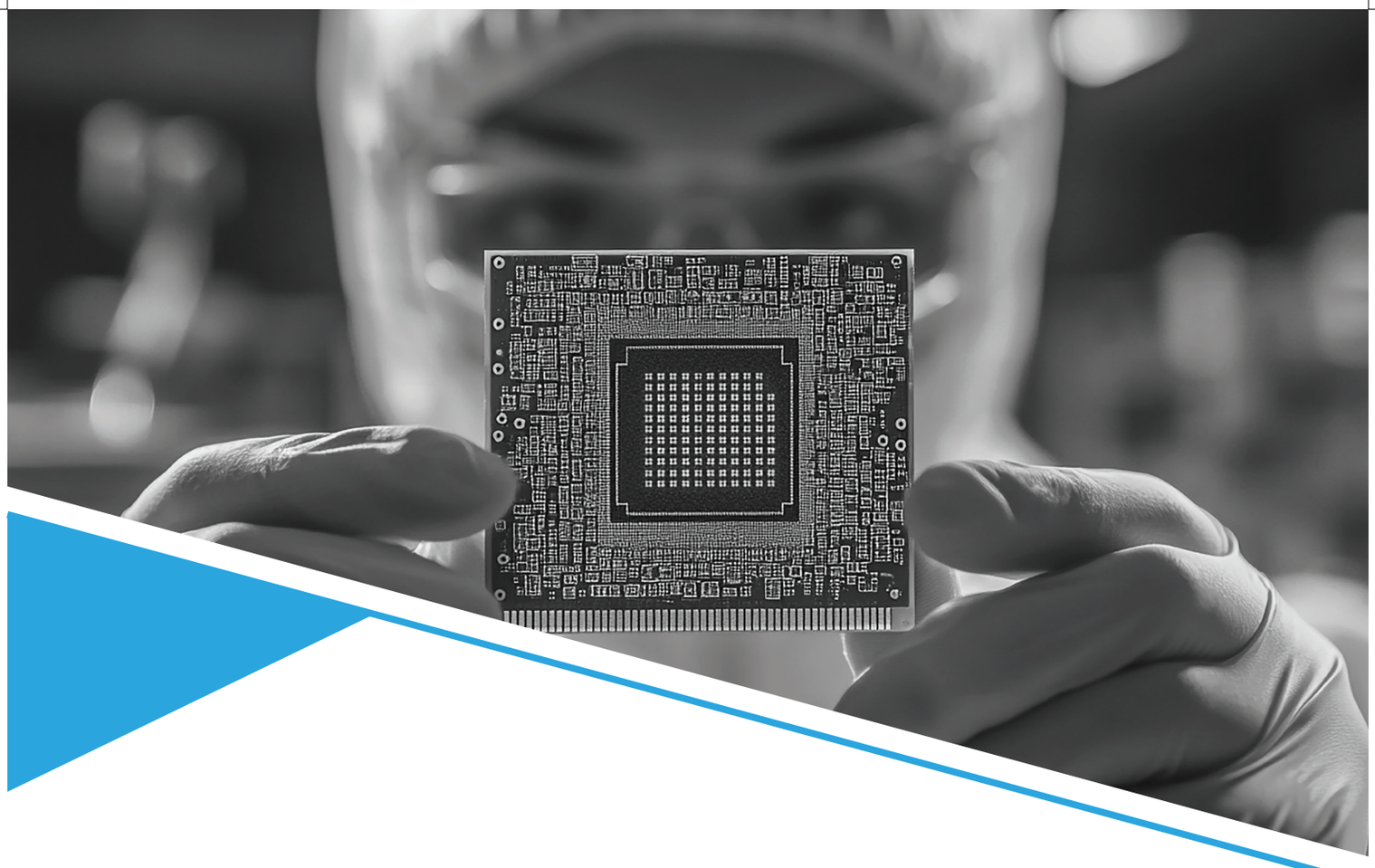
Zukimo SoC Development Platform

To further reduce risk and development time, Tessolve offers Zukimo, a pre-validated SoC development platform that accelerates custom silicon programs.
Zukimo provides:

- Flexible architectural foundation
- Optimized interconnect structures
- Support for CPUs, GPUs, DSPs, ISPs, AI engines, and connectivity IP
- Customization flexibility while maintaining structural integrity

This platform-based approach helps reduce validation effort, shorten development timelines, and enable a predictable path to production.





Structured Execution. Predictable Outcomes.

Tessolve assumes full technical ownership of custom silicon programs — delivering coordinated execution across architecture, design, validation, and production support. Our engineering teams scale with program complexity, ensuring that both focused design initiatives and full SoC developments receive the required depth and attention. With experience across Automotive ADAS, Vision systems, Industrial applications, HPC, IoT, and connected platforms, Tessolve brings deep technical expertise and domain understanding to every engagement.

Partner for Production-Ready Silicon

Custom silicon is a strategic investment. The right engineering partner ensures that complexity is managed, risks are controlled, and execution remains aligned with business objectives.

Tessolve delivers structured, accountable, and scalable custom silicon engineering — from idea to production.

Tessolve Semiconductor GmbH inquiry@tessolve.com www.tessolve.com