

Customer Success Story

Verifying Safety Excellence in Automotive Radar Systems

The Customer Challenge

Arbe undertook the development of state-of-the-art automotive radar devices for autonomous driving solutions, facing complex verification challenges. The primary task was ensuring flawless operation of mission-critical modules, including the safety processor unit and System-on-Chip functionality. This required comprehensive verification of unprecedented real-world usage scenarios while meeting stringent automotive quality standards and compliance requirements.

The Veriest Solution

Veriest Solutions provided comprehensive verification services to ensure automotive-grade reliability:

- Deployed expert verification teams for safety processor unit testing
- Implemented rigorous verification methodologies for System-on-Chip functionality
- Verified mission-critical modules under real usage scenarios
- Ensured compliance with automotive quality standards
- Maintained close collaboration with chip designers throughout development
- Addressed unique radar-specific verification challenges

Result

The partnership delivered outstanding outcomes:

- Successfully verified advanced automotive radar devices
- Achieved comprehensive safety functionality verification
- Enabled development of unparalleled safety solutions
- Established foundation for safer driving solutions
- Delivered technology optimized for automotive market requirements



"Meeting the required radar functionality including all use cases while maintaining high safety levels is one of the highest priorities at Arbe, so that we can bring unparalleled safety solutions to the automotive market. We are pleased to work with Veriest to verify that our solution is optimized to making zero road fatalities to reality."

Avi Bauer, Vice President of Engineering at Arbe