



Circuit Design Services

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is focused on CMOS Analog and Mixed-Signal Integrated Circuit Design & Engineering Consulting Services and Product Development for a wide range of applications. Our customers include

- System OEMs and contract manufacturers designing ASICs and circuit boards
- ASIC and ASSP manufacturers who need analog or high-speed transceiver features in their products
- Semiconductor foundries looking to offer their customers unique analog and transceiver intellectual property

At Greyrock Technology, we focus on providing solutions that integrate naturally into their application environments. We pay close attention to the desired end-user experience and take a comprehensive view of development. Besides pursuing the requirements of design, we keep in mind the needs of chip manufacturing, testability and quality assurance. Our history of taking complex products through production is a benefit for our customers.

Our experiences and specialties include

- Communications, Industrial and Consumer applications
- Extensive mixed-signal SOC ASIC and ASSP design, production and marketing
- Major semiconductor foundry relationships and successes, from models through production
- High-speed serial transceiver design
- Interface design for high-speed memory
- Power management, Clock distribution and System Supervision
- Precision motor and servo control
- Data conversion and signal processing
- Design for low power, noise isolation, small die area, and reliability
- Complete characterization and test development

Greyrock Technology engages with customers at various business levels, from work-for-hire through intellectual property development and licensing. We use the latest Cadence design tool flow end to end, but also have professional experience with other prevalent analog and digital design tools.

We've worked with the major semiconductor foundries, recently taking designs to production in 180nm and 130nm CMOS processes. Our experience includes designing successfully with and without precision analog process modules and under various process constraints, always with an eye on minimizing cost.

The areas of design and consulting we can help you with are

- Analog circuit design at the chip and board level
- Serial transceiver design
- DDR-I and II memory interfacing
- Clock synthesis and distribution
- Power and thermal system supervision
- Mixed-signal design and test architectures
- Low-noise and low-power architectures
- Design for ESD protection
- Circuit and system characterization
- Circuit board layout for high-performance analog

We come from a heritage of using product development process to set goals and expectations and deliver value. We've also learned to plan up front for the downstream needs for manufacturing testing, system application and customer support. We don't just design circuits; we develop solutions that work for everyone in the value chain. Our discipline for this process is tangible and a component of our success.

Contact us to discuss your analog circuit, high speed serial or system challenges.