

Our Services – From First Principles to Production

We support blockchain protocols across the full lifecycle — from early-stage research and protocol design to formal security guarantees and production-grade implementation. Our work integrates scientific rigor with real-world engineering, ensuring systems are not only innovative, but secure, robust, and deployable.



Formal Security Proofs & Protocol Design

In-depth reviews of cryptographic protocols and system designs to identify security risks, edge cases, and incentive misalignments.



Academic Paper Development

Co-author academic research papers with original scientific contributions, targeting top-tier venues.



Proof Sketches & Security Arguments

Validating design intuition, surface edge cases, and bridging early designs to full formal proofs.



Protocol Specification Development

Implementation-ready technical specifications to bridge research and engineering. Ensures precision and clarity across protocol components and alignment with engineering needs.



Protocol Documentation (White & Lite Papers)

Explaining protocol motivation, architecture, security properties, and roadmap for both technical and non-technical audiences.



Security-Critical Implementations & Audits

Implementation and review of cryptographic primitives, consensus components, smart contracts, and cross-chain infrastructure in production environments.



Protocol & Systems Engineering

End-to-end development of protocol components, including on-chain, off-chain, and cross-chain infrastructure.



Ongoing Scientific & Engineering Advisory

Long-term collaboration supporting protocol evolution, upgrades, and research-driven roadmap decisions as systems mature.

Get a tailored proposal → hello@commonprefix.com