FIG. 1 — Main LUCID Pipeline Flow

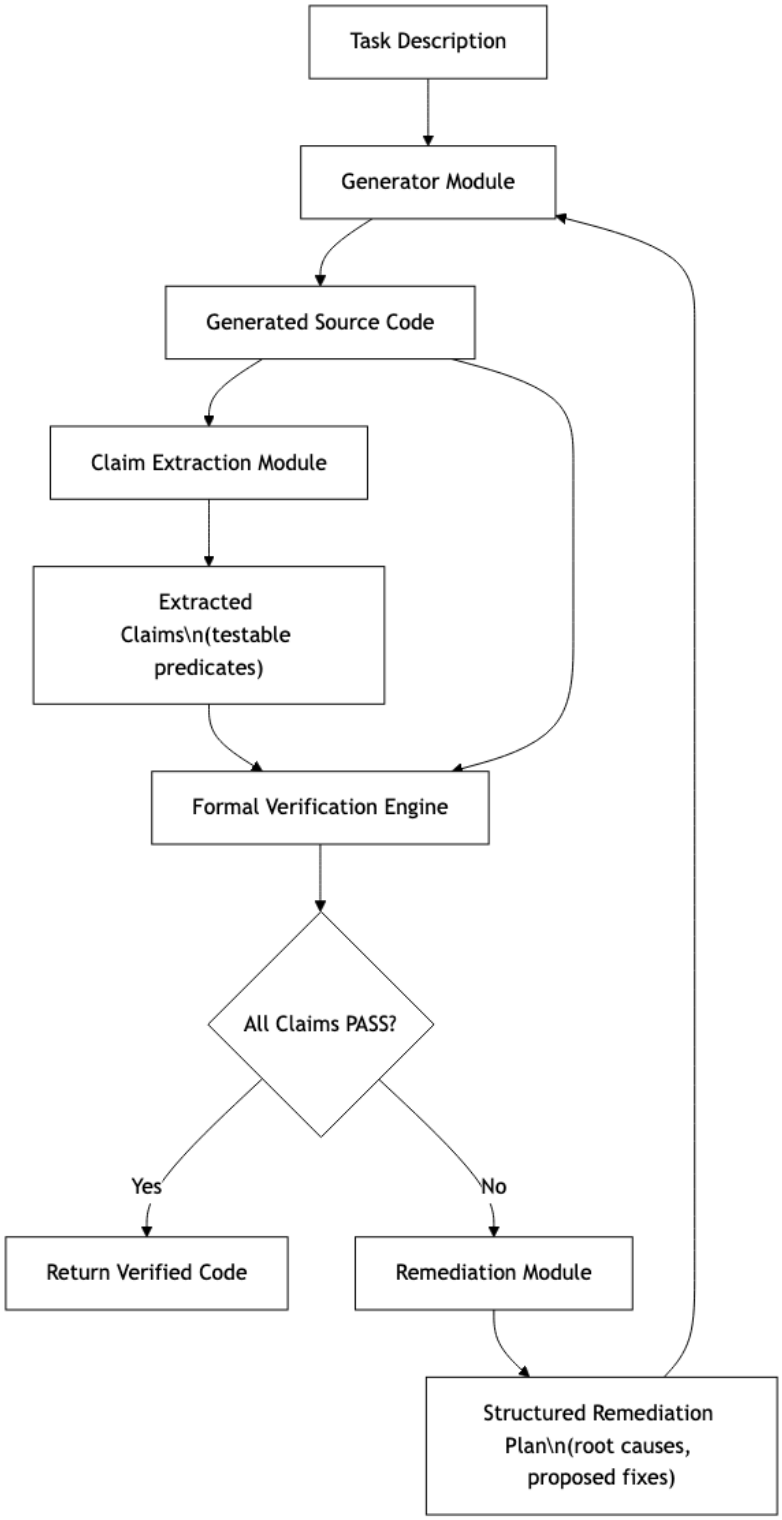

FIG. 2 — Verification Loop Iteration Detail

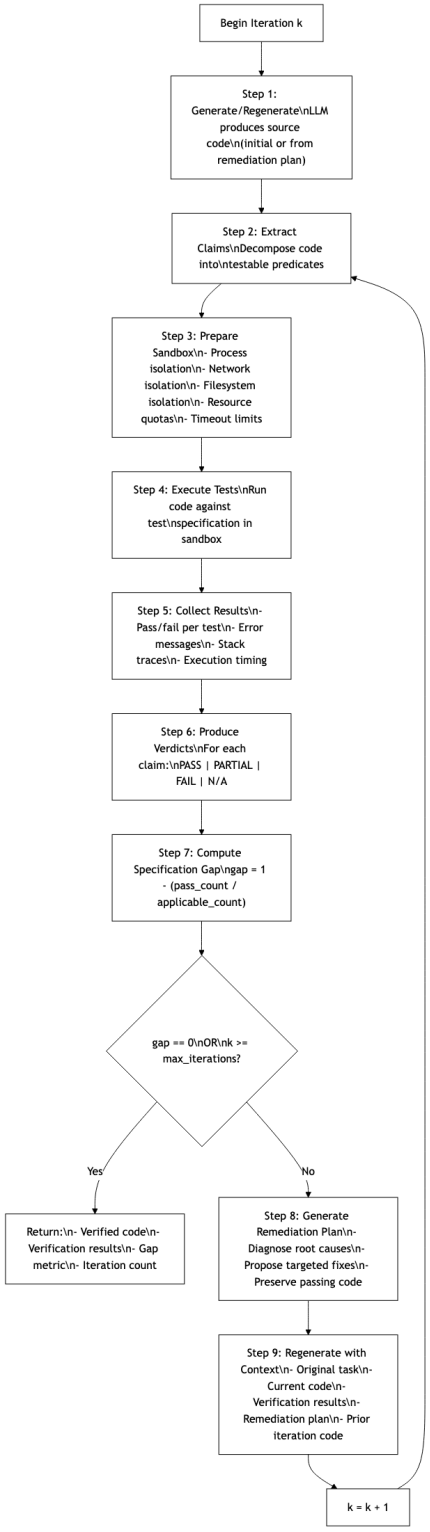

FIG. 3 — API Request/Response Flow

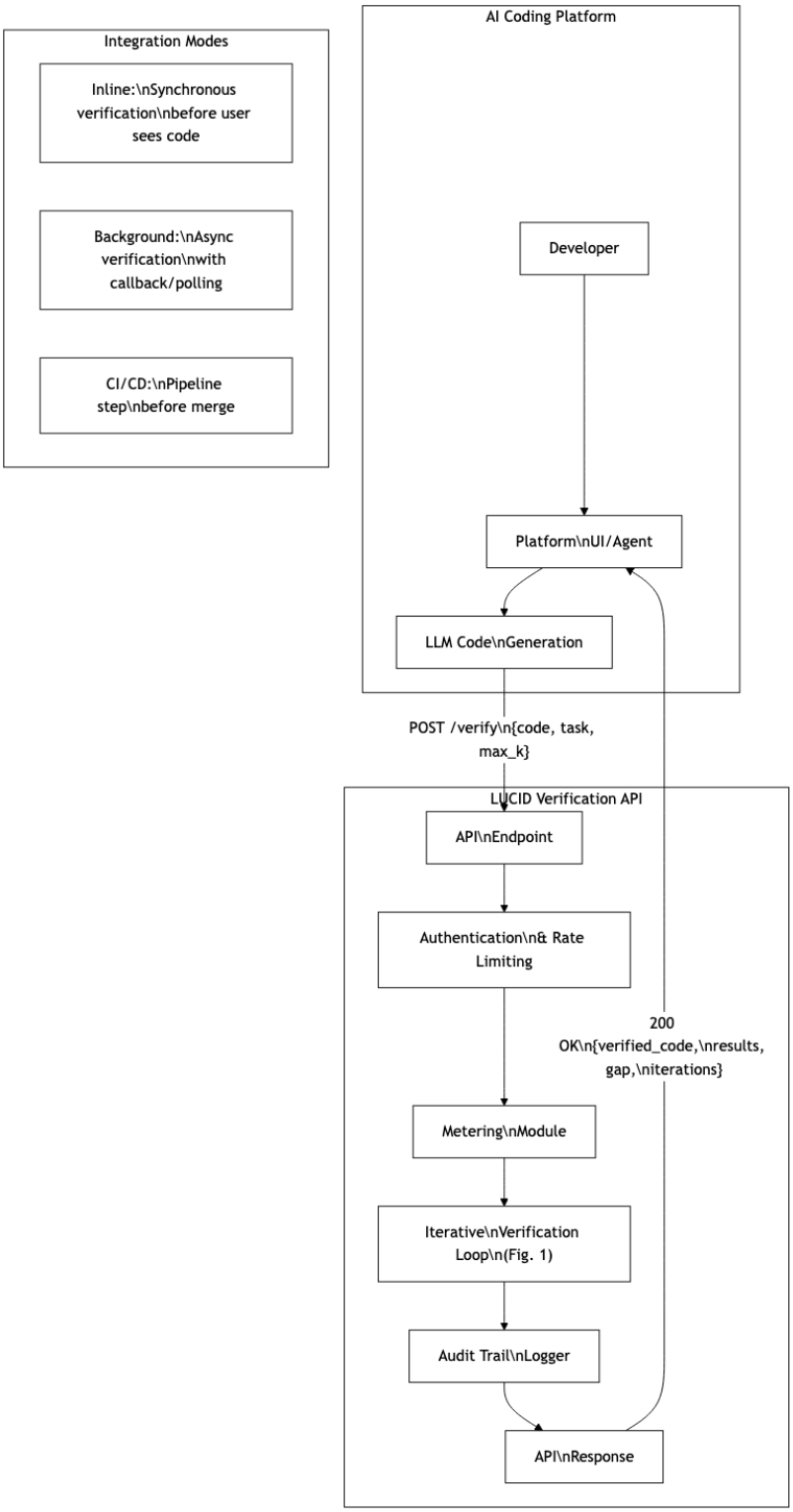

FIG. 4 — Convergence Comparison: LUCID vs. Alternatives

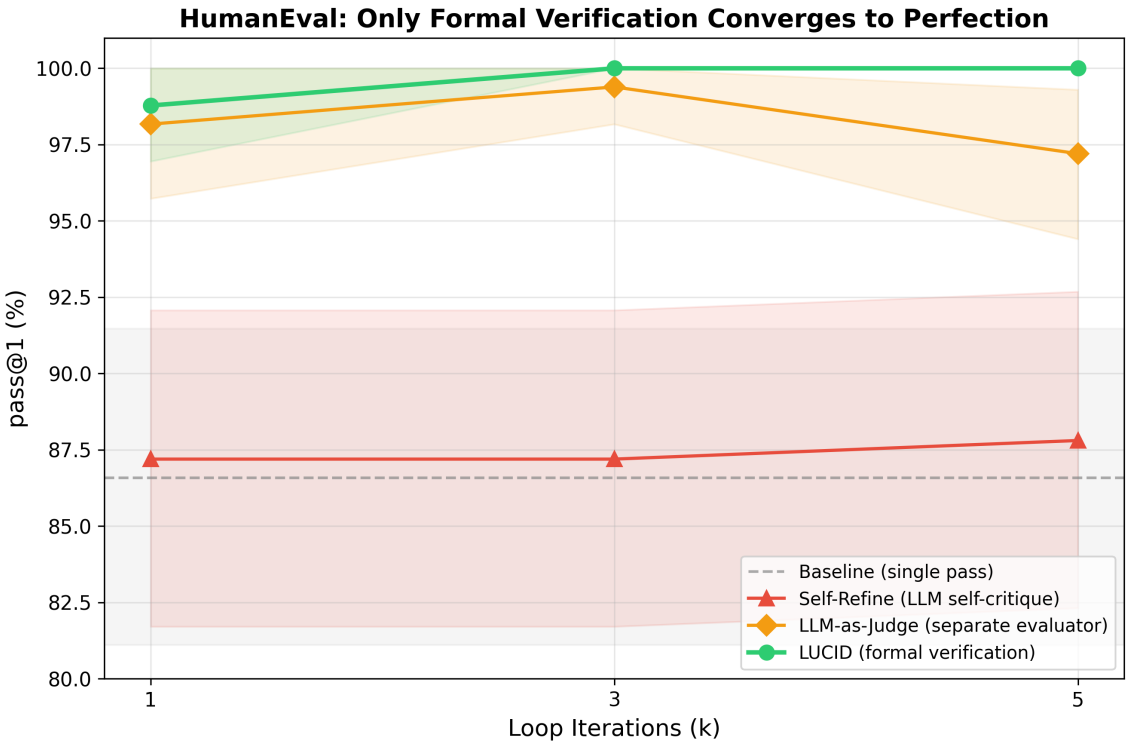

FIG. 5 — Specification-Level Variant

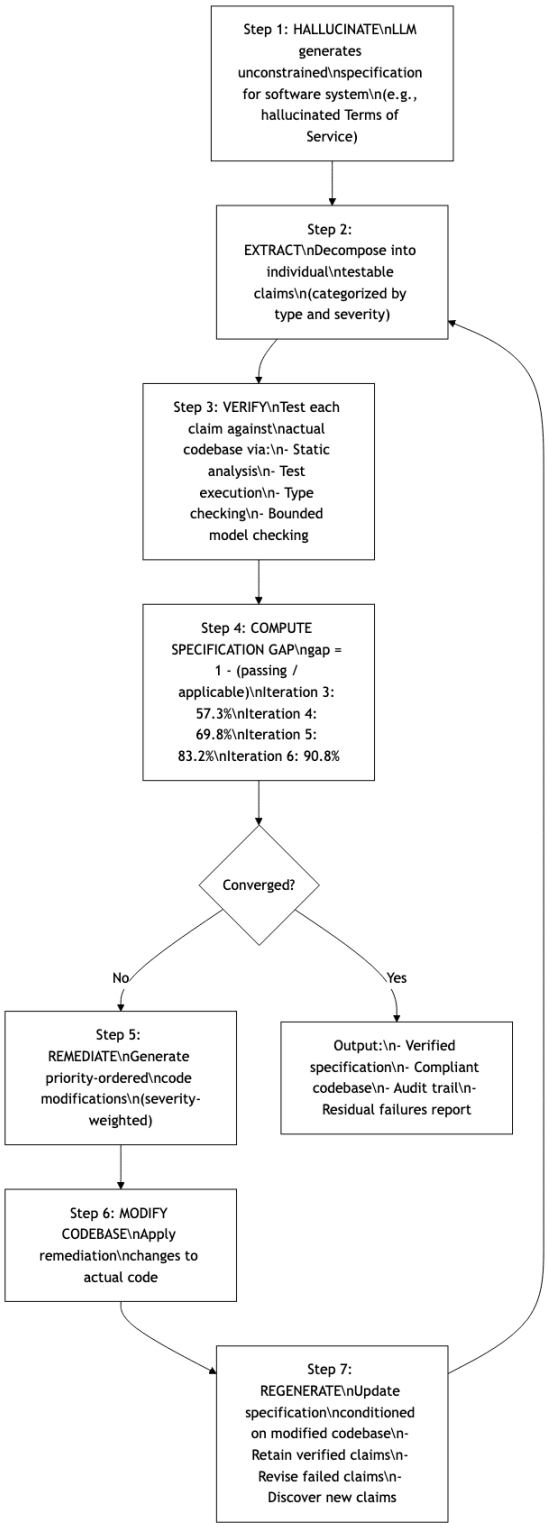

FIG. 6 — Formal Verification Engine Detail

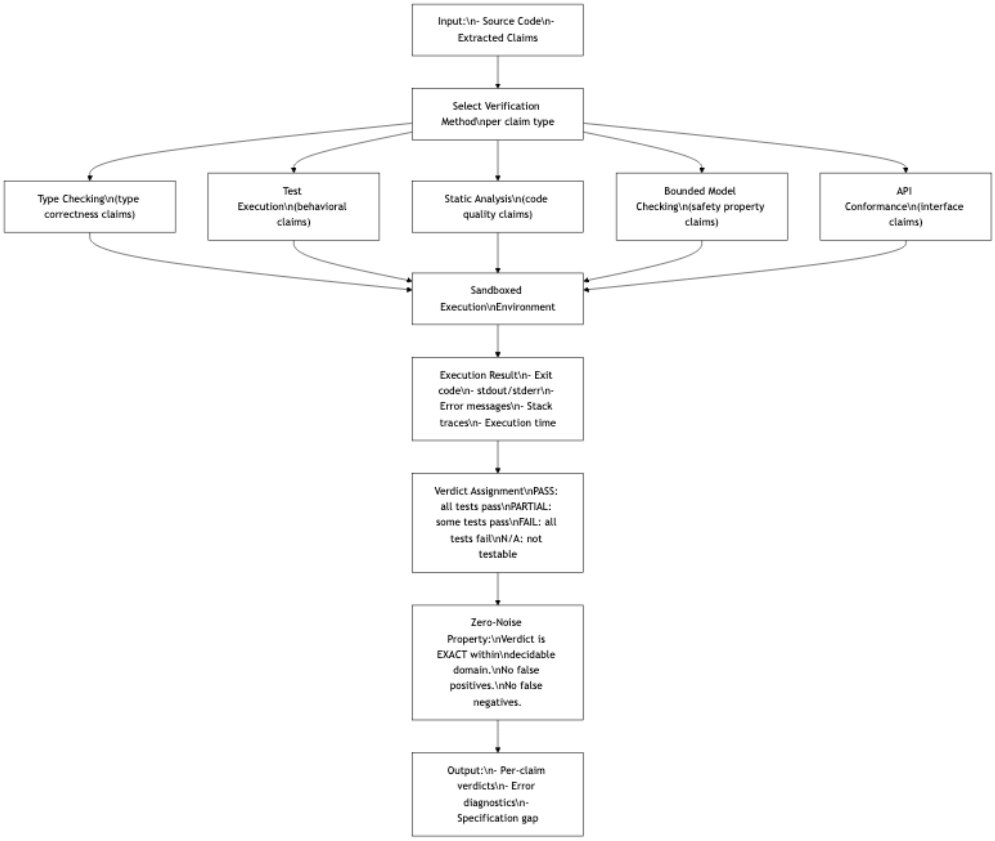
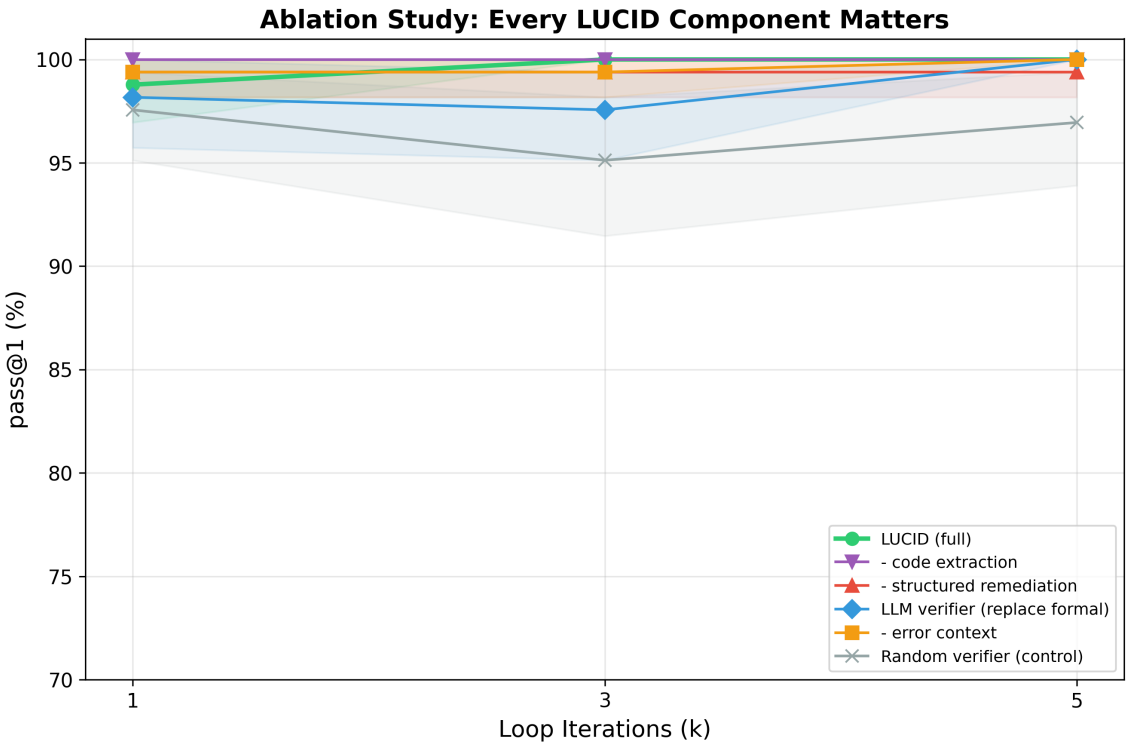
FIG. 7 — Ablation Study Results (Component Contributions)