



## SOP: AI Orchestration & Context Architecture

**Version:** 1.0

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**Objective:** To transition from non-deterministic "prompting" to a repeatable Systems-First deployment of Large Language Models (LLMs).

## SOP: AI Orchestration & Context Architecture

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### Executive Summary

Prompt Engineering is a temporary bridge to mitigate the lack of structure in LLM interactions. This SOP replaces "vibe-based" prompting with **Context Architecture**, focusing on reducing inference waste and ensuring logic-gate consistency.

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### The Four-Layer Deployment Framework

#### 1| The Telemetry Layer (Input)

- **Action:** Provide raw, unedited data (*logs, transcripts, stakeholder notes*).
- **Logic:** LLMs are lossy compression engines. Your interpretation is noise; raw data is the signal.
- **Requirement:** Identify the divergence between stated goals and raw telemetry before asking for a solution.

#### 2| The Architectural Layer (Environment)

- **Action:** Define the "Physics" of the workspace.
- **Logic:** Do not just assign a "Role." Define the digital constraints (*e.g., "Output must be Rust 2024 compliant," "Align to ISO 27001 GRC standards"*).
- **Requirement:** Treat the prompt as a configuration file, not a request.

#### 3| The Recursive Audit (Quality Assurance)

- **Action:** Mandatory iterative loop for self-critique.
- **Logic:** The first output is a draft of patterns. The second output, following a technical debt audit, is the product.
- **Requirement:** Command the AI to:  
*"Critique the above for logical inconsistencies and ownership gaps. Rewrite to address these findings."*

#### 4| The Schema Layer (Alignment)

- **Action:** Map industry-specific data into a reusable JSON or Markdown schema.
  - **Logic:** To scale, the AI must think in the same data structure as the organization.
  - **Requirement:** Design a targeting framework that aligns output to specific industry metadata.
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### Strategic Conclusion

Speed is not a substitute for ideation. This architecture ensures that as the velocity of AI change increases, the organization maintains a Control Plane over the output.