Suhas Bhairav

AI Finance Automation Control Matrix

A practical control framework for automating finance with governance.

A practical framework to automate finance while managing risk.

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Automated Finance Control Matrix

This guide provides a practical framework to map finance actions to automation, risk, and governance.

Key move **Important: document controls before deployment; specify evidence and rollback steps.**

PRACTICAL CHECKLIST

01 Automate routine, rules-based tasks with documented data inputs.

02 Keep high-risk decisions human-reviewed and auditable.

03 Capture required data and evidence for every action.

04 Implement approvals thresholds by role; enforce segregation of duties.

05 Set monitoring dashboards for activity, variance, and errors.

06 Prepare rollback procedures and test data recovery.

07 Data & tools: ERP data, AI assistants, RPA, and audit trails.

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What to Automate & Review

Identify actions suitable for automation and those requiring human validation. Define data inputs, tools, and guardrails.

Key move **Evidence-first design: require approved data sources for every automation.**

PRACTICAL CHECKLIST

01 Accounts Payable: 2-way PO and invoice matching with exceptions flagged.

02 Cash Application: auto-cash posting from remittances with error alerts.

03 Expense Report Processing: automatic policy checks and routing to approvers.

04 General Ledger: auto journal entry suggestions with human review.

05 Vendor Master: automated enrichment and deduplication with quarterly audits.

06 Reconciliation: auto-matching against bank statements with exceptions.

07 Data & tools: ERP data, AI assistants, RPA, and audit trails.

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Adoption Plan, Measurements, & Roles

This page outlines phased deployment steps, KPIs, and ownership. Use weekly increments to minimize risk.

Key move **Keep a clear ownership map; confirm approvals before production.**

PRACTICAL CHECKLIST

01 Week 1: inventory processes and choose one pilot like AP invoice matching.

02 Week 2: define data inputs, owners, and evidence for the pilot.

03 Week 3: implement automation with monitoring dashboards and alerts.

04 Week 4: review results, adjust thresholds, and document rollback.

05 Weeks 5-6: scale to additional processes based on success metrics.

06 KPIs: cycle time, error rate, approval time, and audit completeness.

07 Roles: finance owner, compliance reviewer, IT owner, and external auditor.

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ABOUT THE CREATOR

Suhas Bhairav

I build AI systems that combine distributed architecture, retrieval, knowledge graphs, security, and practical workflow design. My focus is AI that can be used repeatedly by real teams: understandable, reliable, and grounded in the work people already do.

EXPERTISE

- Principal systems architecture and applied AI engineering
- Production-grade AI systems, agentic workflows, RAG, and knowledge graphs
- Full-stack workflow applications across AWS, Google Cloud, Azure, on-premise, and hybrid environments
- Practical AI implementation patterns for automotive, manufacturing, finance, logistics, cybersecurity, sales, and customer operations
- Security, governance, observability, approvals, and failure-mode thinking for operational AI systems

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