

Aditya Sugandhi

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GE Vernova – Advanced Research Division

RE: AI Agent Engineer (R5021726)

Dear Hiring Manager,

I am excited to apply for the AI Agent Engineer position at GE Vernova. With a Master's in Computer Science and hands-on experience building **production multi-agent systems with MCP protocol, LangGraph, and RAG pipelines**, I can contribute meaningfully to your autonomous AI initiatives for energy transition.

MCP Protocol Expertise: At Florida State University, I architected an **AI-powered ecosystem using Claude Code with 10+ MCP servers**. I built 3 custom MCP servers for Oracle database operations and BACnet device management, improving workflow efficiency by **60% across 15+ engineering teams**. This hands-on experience with agent orchestration protocols—specifically mentioned in your requirements—positions me uniquely for your team.

Multi-Agent System Development: I've built production-grade multi-agent systems including: a **21-node LangGraph workflow** for B2B sales automation with RAG and conditional routing; a **3-agent executive intelligence dashboard** using NVIDIA Nemotron models with 13 function-calling tools; and asynchronous microservices processing **35k+ devices with 99.2% accuracy**.

Energy Sector Relevance: My current role involves **building automation systems (BACnet/IP)**, directly related to energy management infrastructure. I understand the intersection of AI agents and physical systems—critical for GE Vernova's energy transition mission.

Production ML & NLP: As an ML Researcher at FSU, I architected pipelines over 1TB+ datasets with LLMs, vector embeddings, and semantic search using Transformers and vector databases (ChromaDB, Qdrant).

I am drawn to GE Vernova's focus on autonomous AI agents for real-world energy challenges. I am authorized to work in the United States and open to relocation to Niskayuna, NY.

Thank you for considering my application. I look forward to discussing how my MCP and multi-agent experience can contribute to your Advanced Research team.

Sincerely,

Aditya Sugandhi