

RAINER JAMES B. PALMIANO

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AI Enthusiast | Data Analyst | Electrical Engineer

Transitioning into **AI and Data Science**, with a strong background in building and deploying AI solutions. Skilled in **machine learning**, **AI integrations**, and **data analysis**, I have successfully delivered AI-driven projects that enhance operational efficiency. Now focused on applying my expertise to drive innovation and solve complex problems in AI and data science.

KEY SKILLS:

LLM Engineering | RAG Systems | Agentic AI | Workflow Automation | AI Integrations | QLoRA Fine-Tuning | Vector Databases | LLM Evaluation
Guardrails & AI Safety | Machine Learning | Deep Learning | Data Analysis | Feature Engineering | Python | SQL | FastAPI | Docker | MLOps | AWS Bedrock
SageMaker | Lambda | LangGraph | AutoGen | n8n | OpenAI SDK | Tableau | Power BI

EDUCATION & TRAINING

Proficient AI Engineer, *Ed Donner, LGENCY*

- **Relevant Courses:**
 - **AI Engineer: Core Track:** LLM Engineering, RAG, QLoRA, Agents
 - **AI Engineer: Agentic Track:** The Complete Agent & MCP Course
 - **AI Engineer: Production Track:** MLOps, Deploy LLMs & Agents at Scale
 - **AI Builder:** Create Agents, Voice Agents & Automations in n8n
 - **AI Leader:** Generative AI & Agentic AI for Leaders & Founders
 - **AI Coder:** Vibe Coder to Agentic Engineer

Data Science Bootcamp, *365 careers*

- **Relevant Courses:** Probability and Statistics, Machine Learning with Python, GPT for Data Science, Linear Algebra Fundamentals, Deep Learning with TensorFlow 2, Software Integrations
- **Capstone Projects:**
 - Developed a machine learning algorithm to predict customer repurchase likelihood. Preprocessed 30k data points and built a deep neural network model using TensorFlow. Through training, validation, and testing, achieved a model with 91% accuracy, optimizing customer retention strategies.

Bachelor of Science in Electrical Engineering, Summa Cum Laude, *University of the Philippines Diliman*

Certified Energy Manager, *Meralco Power Academy*

Certified Lean Six Sigma Green Belt, *Advanced Innovation Group Pro Excellence (AIGPE)*

FEATURED PROJECTS

- **Digital AI Twin:** Built a digital AI twin with tool-calling capabilities to trigger webhook-based push notifications using a serverless AWS stack (Lambda, S3, API Gateway, Bedrock, CloudFront); deployed via Terraform and GitHub Actions.
- **Personal AI Assistant:** Developed a LangGraph-based AI assistant with MCP-enabled tooling for web scraping, file management, Python execution, and automated output evaluation against user-defined success criteria.
- **Price Deal Agent:** Fine-tuned a model with QLoRA on an 800K-record dataset and combined it with a Random Forest model and frontier AI models in ensemble architecture. Integrated a RAG pipeline using OpenAI SDK to improve price estimation accuracy and identify high-value deals.
- **AI Automated Business:** Built agentic n8n workflows for lead generation, CRM ingestion, outbound email sequencing, automated voice-based demo booking, and a product-expert voice agent powered by a RAG-based knowledge pipeline.
- **AI Healthcare SaaS App:** Developed an AI healthcare SaaS platform that transforms clinical notes into patient summaries, action items, and patient-friendly follow-up emails, with user authentication, subscription billing, and deployment on Vercel and AWS App Runner.
- **AI Financial Advisor:** Built a multi-agent AI financial advisor that analyzes investment accounts, generates charts, and produces retirement projection reports using Lambda and App Runner for agent orchestration, S3 vector storage and Aurora Serverless v2 for data infrastructure, and SageMaker to host the embedding model for the RAG pipeline.

PROFESSIONAL EXPERIENCE

Energy Manager, Universal Robina Corporation, *Pasig, Philippines* | Apr 2023 – Apr 2026

- **Built and launched the plant’s energy management program from zero** (baselines, SEU registry, EnPIs, M&V, governance cadence), reducing overall **EUR to 75%** of baseline and delivering **~P13M/year electricity + fuel savings** through prioritized energy efficiency & conservation measures.
- **Implemented an end-to-end energy data + reporting system** (submetering + consolidated electricity/fuel/production datasets + dashboards), improving loss visibility and cutting unallocated/unknown consumption by **50%**.
- **Developed normalized SEC/EnPI regression models** to isolate efficiency gains from production/ambient variability, increasing credibility of savings validation and accelerating project prioritization; supported **P20M** worth of approved initiatives.

Project Manager, Universal Robina Corporation, *Pasig, Philippines* | Feb 2025 – Apr 2026

- **Led end-to-end delivery (planning → design coordination → execution → turnover)** of a 10 TPH industrial plant, completing **3 months ahead** of schedule and achieving **100%** milestone on-time completion, while maintaining **±5%** budget variance and **zero** critical punch-list items at handover.
- **Implemented an AI-automated project tracking and reporting system** (progress capture, follow-ups, dashboards, auto-reminders), significantly reducing manual reporting time, improving forecast accuracy, and cutting decision turnaround time from **7 days to 1 day**.
- **Applied Lean Six Sigma techniques to streamline project workflows** (RFI/submittal cycles, approvals, handoffs), reducing RFI turnaround time by **60%** and submittal approval cycle time by **50%**.