

# IVAN GADING AURELIUS

Mechatronics & AI Engineer | Product Builder | Fullstack Engineer  
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## PROFILE SUMMARY

Versatile AI & Mechatronics engineer with a proven record of turning complex ideas into production-grade solutions. Experienced in leading projects through the entire lifecycle; data engineering, model development, system architecture, and large-scale deployment. Notable deliveries include an enterprise-wide agentic RAG sales assistant adopted by 300+ representatives and a graph-based fraud-detection platform that monitors daily transactions. Combine strategic vision with hands-on execution, guiding cross-functional teams to deliver measurable gains in revenue, efficiency, and risk reduction.

## CORE COMPETENCIES

**AI / Machine Learning** – LLM Orchestration, Retrieval Augmented Generation, PyTorch/TensorFlow, Computer Vision, NLP, Graph NN, Reinforcement Learning

**Data Engineering & Analytics** – Text-to-SQL, ETL, Data Modeling, SQL/NoSQL, Superset, Dashboards, Data Visualization

**Backend & DevOps** – Python, Flutter, Java, FastAPI, Flask, Docker, Kubernetes, CI/CD, Linux, AWS / On Prem

**Hardware & Automation** – PLC, Robotics, Embedded C, CAD, Edge AI Cameras, IoT

**Product & Strategy** – Product Road mapping, Go To Market, Creative Ideation, Market Research

**Leadership & Management** – Technical Leadership, Team Management, Stakeholder Communication, Agile/Kanban, Mentorship

**Execution** – Rapid Prototyping, Prioritization, Context Switching, High Velocity Delivery

## WORK EXPERIENCE

### PT. BercaHardayaperkasa — Artificial Intelligence Engineer (Oct 2024 – Present)

- PRITA Product AI Assistant: Designed a text-to-SQL and agentic-RAG pipeline leveraging five years of sales data. Achieved an 80% reduction in data-hunting time and a 15% lift in qualified leads, driving 85% org-wide adoption.
- SALLY v1 → PRITA v2: Built the MVP chatbot in 4 weeks, then evolved it into an enterprise-grade analytics assistant—boosting daily active users 3x.
- LittleLessHeavy.com: Independently engineered an AI-therapy platform using LangChain, FastAPI, and vector-memory sentiment analysis; client-side encryption ensures HIPAA-style privacy.
- RAGnn Anomaly Detection: Deployed a retrieval-augmented GNN that tracks 1M+ transactions/day at 92% precision, cutting manual reviews 60%.
- Built and deployed an offline mobile app meeting transcriber & Summarizer (OpusEcho) in 2 weeks.

### Freelance — Machine Learning & Automation Engineer (2021 – 2024)

- Indomaret Advisory: Presented AI-driven operations to C-suite executives across 4 strategy sessions.
- Edge-AI Cameras for Restaurants: Delivered real-time kitchen analytics that markedly increased service speed.
- Custom ML Prototypes for SMBs: Built models for forecasting, image recognition, and workflow automation.
- Agentic Financial Tracker (ongoing): Conversational spend analysis for individuals & SMEs; beta pilots show users recovering 12% in monthly spending leaks.

### PT. GayaMotor (BMW Assembly Line) — VPS Automation Team (Oct 2023 – Dec 2023)

- Proposed a robotics & PLC automation roadmap, earning executive approval for future rollout.
- Translated BMW technical documentation (German → Indonesian) with full spec fidelity.
- Built an Excel auto-filter tool, trimming list-sorting effort by 30% across multi-sheet BOMs.

## Earlier 2024 — PT Berca Hardayaperkasa Projects

- ML Crypto Trading Bots: Back-tested to a +38 % ROI versus HODL; no longer running on AWS.
- Predictive Breakout Equation: Engineered a model that delivered up to 70 % profit on live trades.
- Vision-Based Signature Verification: Achieved 95 %+ accuracy, slashing document processing time.
- Chatbot-Powered Data Entry: Compressed a 3-month manual cycle into 11 hours via automated extraction.

## TECHNICAL PROJECTS (SELECTED)

### Robotics & Automation

Wi-Fi FPV Ground Drone · Cloud AI CCTV (face-rec ↑ 80 %) · Line-Following Robot · Automated Plant Hydrator (water ↓ 40 %) · License-Plate Hider.

### Software & AI

Company Stock Predictor (60 % hit rate) · Cryptocurrency Trading Bots (spot & futures) · API Connectors (multi-app) · NLP Sentiment Trader · Textile Image Classifier (90 % acc).

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## EDUCATION

International University Liaison Indonesia (IULI) — B.Eng. Mechatronics Engineering, Magna Cum Laude, GPA 3.79 (2020 – 2024)

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## CERTIFICATIONS

Lindy Expert (AI Automation),  
PCB Design w/ EAGLE,  
B1 German (Goethe),  
BMW Assembly Line Internship,  
Excellence in English  
NVIDIA Basic GenAI Certification

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## LANGUAGES

Indonesian (Native), English (Fluent), German (Casual Formal)

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## VOLUNTEER & LEADERSHIP

Liaison Officer – IULI Graduation '21,'22, Student Council Secretary '21-'22, Event Management Team '20-'21, Asia Youth Speak Up Forum (2nd Runner-Up)

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