Kurt King D. Magastino

Computer Science Student · AI-Assisted Developer · Hardware Builder

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SUMMARY

Computer Science student at the University of the Cordilleras who builds where hardware meets software, using AI as my main tool. I have built an AI Messenger storefront and admin dashboard for a phone shop, an emotion-responsive robot and a water-powered flashlight. Two years of phone repair and customer service, plus office administration at a barangay hall.

EDUCATION

BS Computer Science — University of the Cordilleras 2026 – Present

Senior High School, STEM Strand — Maddela Comprehensive High School 2024 – 2026

Graduated with High Honors · Silver Medal in Science · Bronze Medal in Research

COMPETITIONS

- **1st Place** — RSTW 2025, Line Trace (Team)
- **1st Place ×2** — Project R.I.S.E, Robotics and Medical Robotics categories (Team)
- **4th Place** — National Robotics Competition 2025, Line Trace (Team)

PROJECTS

Norman Cellphone Center — Messenger storefront and admin dashboard 2026 – Present

A Messenger chatbot lets customers browse products, reserve items and request repairs; staff manage inventory, reservations and repairs in a web dashboard. Bot and dashboard are working; in active development.

FastAPI · React · SQLite · DeepSeek API · Gemini API · JWT login

ROBERT0 — Emotion-responsive robot Nov 2025

Listens to how a person feels, recognizes the emotion, moves its head to match and plays fitting music. 90% emotion detection across 40 trials; 92% servo reliability; built for under ₱5,000.

Raspberry Pi 3B+ · Python · Google Speech-to-Text · Servo motor · OLED display

POSEIDON — Water-powered flashlight Mar 2026

Two pico-hydro turbines charge a battery for off-grid lighting. Built the physical system for a 6-person research team. 507.8 mW average output across 20 trials; about 27% system efficiency.

Pico-hydro turbines · LM2596 buck converter · Li-ion battery

Local Agent Forge — Local multi-agent coding pipeline May 2026

Master, Prompt Maker, Worker and Critique AIs pass work in a self-correcting loop, running fully on local models.

Python · CustomTkinter · Ollama · phi4-mini · deepseek-r1

Also built: B.A.L.O.N.G (hospital delivery robot, hardware lead) · Prompt Refiner (desktop prompt tool, Tauri + Groq API)

EXPERIENCE

Phone Shop Staff & Repair Tech — Norman Cellphone Center and Accessories 2024 – 2026

- Repaired phone hardware, including screen, battery and charging port replacements
- Resolved software issues, including system reinstalls and boot failures
- Managed inventory of devices, parts and accessories
- Provided sales support and customer service

Office Admin Assistant (SPES) — Barangay Poblacion Sur May – July 2026

- Prepared and filed barangay documents and records
- Processed and issued barangay certifications
- Encoded records and typed letters and reports
- Assisted residents at the office and during barangay events

SKILLS

Languages: Python, C / C++, JavaScript, TypeScript, Rust

Web & Apps: React, Vite, FastAPI, SQLite, Tauri, CustomTkinter

AI: Gemini, DeepSeek and Groq APIs, Ollama (local models), multi-agent pipelines, prompt design

Hardware: Raspberry Pi, servo motors, sensors, circuit assembly, power regulation, phone repair

Tools & Work: GitHub, GitHub Copilot, Antigravity IDE · documentation and records, customer service, inventory management