

Mikael Endale Gebreyes

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FOUNDER & SOFTWARE ENGINEER

LEAD ENGINEER AT RAVN

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Founder and software engineer, 19. Builds systems where a model proposes, fixed rules decide and a person approves what matters, for robot fleets, banks and thousands of users. 60+ products shipped.

01 Work

2023 - NOW

RAVN · Lead Engineer

2025 - PRESENT

- Self-healing infrastructure for robot fleets. Antler Singapore residency.
- A Rust agent on each robot and a server that detects software failures, lets an LLM propose fixes for an engineer to approve, and closes an incident only once the robot is back at work. Load-tested against 1,000 simulated robots (p99 829 ms).
 - Earlier: plain-English hardware descriptions to schematics, PCBs, firmware and fab files; 4,000+ users, enterprise letters of intent.

BlazeMail.ai · Founder & Engineer

JUN 2024 - FEB 2026

- AI cold-email SaaS, built solo at 17.
- Gmail and IMAP inboxes, LLM personalisation and throttled campaigns with self-healing mailbox checks. 300+ active users; shut down when verification costs made it unsustainable.

Budera · Founding Engineer & Lead Developer

MAR 2024 - JUN 2024

- AI banking assistant, verified before every operation.
- Built the layer that checks every AI-initiated banking operation against fixed logic before it runs: 1,000+ operations, each under five seconds. Shipped to Bunna Bank, 1,300 users at peak.

LaloDev · Founder & Engineer

AUG 2023 - MAR 2024

Affordable coding education for underfunded students: 1,000+ users and about USD 1,800 in revenue.

02 Selected projects

60+ ON GITHUB

ARIA	FINALIST OF 40	Always-on operations agent for a resort, with an English/Amharic voice agent.
GetCBAM		EU CBAM emissions reports from a manufacturer's production data and utility bills.
Direct Beneficiary Verification	FIRST PLACE	Voice interviews in three languages; a rule engine decides, a critic agent checks.
Costrym		19 agents that find wasted vendor spend; a person approves every task.

03 Awards

10 RESULTS

Residency	Antler Singapore, Oct 2026	Top 10%	Y Combinator applicants, with Budera
First place	AI Builder Hackathon, Addis, Aug 2026	Top 250	Slingshot 2026, with RAVN
Finalist	Kuriftu Resort & Spa challenge, 40 teams	First place	BITS College Hackathon
Top three	National Hackathon	Winner	ALX Addis Teen Code, advanced
Selected	LaunchX and Accelerate Asia	Design award	VEX Robotics Africa

04 Stack

BACKEND	TypeScript, Node.js, PHP, Laravel, Python, FastAPI, Rust, .NET
FRONTEND	React, Next.js, Svelte, Inertia.js, Tailwind CSS, Figma
DATA	PostgreSQL, MySQL, MongoDB
AI	LLM integration, RAG pipelines, multi-agent orchestration, verifier-critic patterns, structured-output validation, voice STT/TTS

05 Education

Lebawi International Academy · High School Diploma, Natural Sciences

2026