Krishaanth Ramaraj

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Electrical Engineering student at TU/e and working hardware/software engineer who learns by building. Hands-on across drones, robotics, and independent ventures — comfortable taking a problem from concept to working prototype and across the hardware–software boundary.

Experience

Junior Hardware Engineer (Intern) — Degla AI (LLM-Controlled Drone Swarms, S&R) May 2026 – Jun 2026

- Built and tuned multi-rotor platforms: airframe assembly, weight balancing, pre-flight tuning.
- Worked with PX4 firmware — flight modes, PID tuning, MAVLink communication.
- Ran Gazebo simulations and integrated ROS2 nodes for sensor and data pipelines.
- Bridged hardware and software: translated physical constraints into software parameters and back.

Founder (solo) — Vinea, Greenhouse Robotics Venture (getvinea.nl) Jul 2026 – Present

- Took a venture from zero to a validated thesis: market sizing, unit economics, business model, and go-to-market for autonomous robots in Dutch commercial greenhouses.

Bartender — Thomas (Part-time) Oct 2025 – Present

- 15–20 hrs/week alongside full-time study; composure and communication under pressure.

Projects

- **JobBlast** (jobblast.app) — AI job/internship platform: resume ATS scoring, company match scores, auto-apply, and eligibility roadmaps. Launched July 2026; 10 active users and counting.
- **Agricultural Robot Prototypes** — built multiple iterations concept-to-prototype, working through hardware failures iteratively.

Technical Skills

Flight & Robotics: PX4, ArduPilot, MAVLink, ROS2, Gazebo
Programming: C, MATLAB & Simulink, Python
Hardware: Circuit analysis, airframe assembly, power systems, sensor integration

Additional Qualifications

- **Drone Pilot Licence** — certified drone pilot.
- **Languages:** English (native fluency), Dutch (professional proficiency).

Education

BSc Electrical Engineering — Eindhoven University of Technology (TU/e) Sep 2025 – Present
Expected graduation: July 2028

International Baccalaureate Diploma — International School Almere 2023 – 2025