Ken Ooi

AI engineer building production generative-video and agent systems, on a robotics foundation.

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Experience

Founding AI Engineer, A47 Media — Dec 2025 to present

- Build Power Studio, the node-based canvas for generative image and video, and the model registry behind it.
- Built the multi-model generation backend: Kling, Seedance, Wan, Seedream, GPT Image, Gemini and TTS behind one registry, with per-provider queues, failure recovery and credit billing with automatic refunds.
- Built a 12-stage harness that turns a news link into a vertical explainer with a presenter, with approval gates before every paid model call.
- Wrote custom ComfyUI nodes that fill Figma templates automatically, and extended an open-source MCP server so Claude can edit in Premiere Pro (18 new tools).
- Load-tested the platform for the Seedance 2.0 hackathon (BytePlus × A47, 619 attendees, Asia School of Business KL) with 600 simulated users and up to 200 video jobs at once, then ran the prompt-writing workshop and mentored teams on the day.
- #2 contributor to the main platform, with 640+ commits.
- 500+ users generated 9,000+ AI videos and images in the platform's first 90 days after launch.

Builder in Residence, 500 Global — Feb 2026 to present

Co-host, Malaysian.ai podcast, with Ashvin Praveen — Oct 2026 to present

- Interview exit founders and local builders about AI in Malaysia.
- Built Podcast Studio, the local-first editing workspace the show is cut with.

Career break, Phuket, Thailand — Mar 2025 to Jul 2025

- Trained at Bangtao MMA, then won my first amateur boxing fight in the Malaysia Fight League (1-0-0).

Griller (part-time), Nando's UK & Ireland, Southampton — Oct 2022 to Jul 2024

- Worked back of house alongside my degree. Nandoca of the Month (Nov 2023) and Nandoca of the Year 2023, then trained new staff for my last two months.

Business Development (contract), ParkEasy, Malaysia — Jul 2022 to Sep 2022

- Pitched EV charging infrastructure to luxury malls, five-star hotels, airports and large commercial developers.

Intern, Bermaz Auto Berhad — Dec 2021 to May 2022

- Assisted technicians with diagnostic tests and troubleshooting, and spoke to clients about EV collaboration opportunities.

Co-founder and CEO, Tapau-Je, Johor — Oct 2020 to May 2021

- Started a delivery service bringing home-cooked meals to university students.

Selected projects

At A47 Media

- **Power Studio.** Node-based canvas for generative image and video, built with React Flow. TypeScript, React Flow, Next.js
- **Presenter-video harness.** 12-stage news-to-presenter-video harness with spend approval gates. Python, Claude, ElevenLabs, Whisper
- **Figma nodes for ComfyUI.** ComfyUI node pack that fills Figma templates from n8n. Python, ComfyUI, Figma REST API, Pillow
- **Premiere MCP.** Extended an open-source MCP server with 18 Premiere Pro tools and an After Effects template library. Python, FastMCP, Socket.IO, Node

Things I built

- **Podcast Studio.** Local-first podcast editing workspace: transcription, diarisation and reviewable cuts. Python, Whisper, pyannote, Premiere handoff
- **OnlyRANK.** AI-search visibility diagnosis across ChatGPT, Claude and Gemini, with a CLI, web scorecard, REST API, MCP server and Content Refresher. Python, FastAPI, MCP server, Supabase
- **Stue.** 3D room planner that renders a photoreal image of the exact room with GPT Image 2. Next.js, React Three Fiber, GPT Image 2, Vercel

Robotics

- **G1 dance.** Phone video to Unitree G1 dance policy with PPO in MuJoCo MJX, gated across engines. Python, JAX, MuJoCo MJX, LocoMuJoCo
- **Text-to-CAD.** Text-to-CAD robot spec generator with live phone-gyro control (BEYOND Expo finalist). Python, OSC/UDP, WebSockets, Three.js
- **humanoid-scorecard.** Statistical robustness scorecard for humanoid walking policies: 1,053 paired randomized trials each. Python, MuJoCo, MJX, ONNX
- **DroneDock.** Team lead, MEng group design project: HANGAR-1, a 3-DOF vision-tracked platform for docking a drone on a moving rover. SolidWorks, Raspberry Pi, ArUco, ArduPilot

Recognition

- **Finalist, BEYOND Expo hackathon**. Macau. Text-to-CAD with live phone control.
- **Co-host, Malaysian.ai podcast**. With Ashvin Praveen.
- **TEDx speaker, TEDxUoSM, 2020**. Talk: “Morning Motivation”, on the TEDx Talks channel.
- **Winner, Robotic Insect challenge, 2017**. National Science Camp 2017 at Taylor’s University. Team prize of RM 4,000.
- **Amateur boxing, 2025**. Won my debut fight in the Malaysia Fight League, after a training camp at Bangtao MMA, Phuket.

Education

Master’s in Mechanical Engineering with Mechatronics, University of Southampton, UK — 2019 to 2024

A levels, Kolej KDU, Malaysia — 2018 to 2019
2A 1B. High Achiever’s Scholarship.