CAREERS · ENGINEERING

Senior Hardware Design Engineer — Camera & Embedded AI

Camera electronics and embedded AI boards, from architecture to production · 5–12 years

1 position | Coimbatore · candidates in Bengaluru, Chennai and Hyderabad welcome | Full-time

The role

Build the camera electronics and embedded AI board inside our industrial vision products — and take them from architecture through bring-up, validation and production, so they run reliably on factory floors at scale.

What you will do

- Turn product requirements into a hardware architecture, component choices and documented trade-offs.
- Design camera electronics around image sensors and MIPI CSI-2 — power, clocking, reset and reliable data transfer.
- Design or lead the design of SoC / compute-module carrier boards with Ethernet, USB, storage and industrial I/O.
- Own schematics and review multilayer, high-speed PCB layout, stack-up and routing.
- Plan first power-on and bring-up; debug methodically with lab equipment and logs.
- Take boards through validation and production: test points, DFM/DFT, EVT/DVT/PVT, manufacturing handover.
- Find the root cause of field failures and make sure they don't come back.

Who we are looking for

- 5+ years of hands-on electronics product development — typically 5–12.
- You personally helped take at least one product into production — not only a prototype or an academic project.
- Multilayer PCB design and review, and real board bring-up.
- Hands-on with some of: MIPI CSI-2, DDR/LPDDR, USB 3.x, PCIe, Gigabit Ethernet.
- Comfortable working with embedded Linux and software engineers at the hardware/software boundary.
- Good to have: Rockchip, NXP, NVIDIA Jetson or Qualcomm platforms; camera integration; SI/PI, thermal and EMI/EMC; EMS partners and production test.

Your first year

- A clear architecture and risk list before committing to a PCB spin.
- Fewer avoidable board revisions.
- Boards that bring up methodically and hand over to manufacturing cleanly.
- A plan for reliability, yield and serviceability as volume grows.

About CountAI. We build AI, computer vision and robotics for the factory floor. Knit-i inspects fabric live on circular knitting machines and stops the machine the moment a defect starts — trusted by 30+ factories in 7 countries, and winner of the Intel Edge AI Software Excellence Award 2026. Co-founded by an IIT Madras alumnus in Coimbatore.

Apply in about 10 minutes

Scan the code, or go to **counton.ai/careers/senior-hardware-design-engineer**

Know someone who fits? Forward this to them.