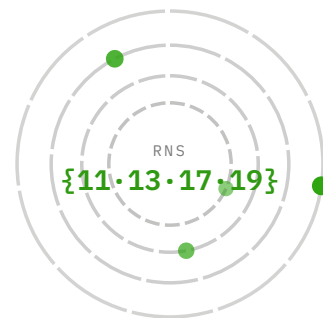


How important is π ?

The physical world spins; computers draw straight lines, and every near-miss compounds. **Autocosc builds physics-native silicon that counts cyclic events as exact integer state in coprime rings** — no drift, no carries, no approximation within range. The first product is an always-on RF ear; the architecture is a reflex tier beneath physical AI.



BLOOD · DHAHRAN 1991

687 m

A 24-bit clock's truncation compounded for 100 hours; a Patriot battery never fired. 28 soldiers died of a rounding error.

HEAT · DATA MOVEMENT · ASPLOS 2018

62.7%

Of system energy on measured workloads moves data instead of computing — why always-on awareness hits a power wall.

BLINDNESS · GATWICK 2018

£50M

Battery budgets force sensors into scheduled blindness. One drone over one airport: ~£50M in a weekend.

ACT I · NOW — THE RF EAR

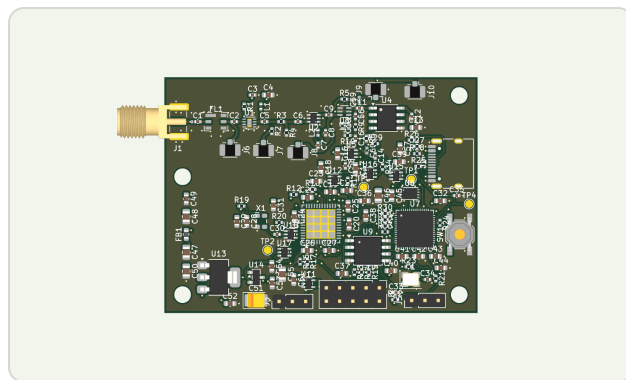
autocosc-rf-v1: always-on RF event detection in the 902–928 MHz band. It hears the intermittent frequency-hoppers that duty-cycled radios sleep through — on a μ A-class power target, not watts.

ACT II · NEXT — THE DIGITAL SPINAL CORD

A reflex tier beneath the OS and the planner: local integer hardware that keeps machines alive while the AI brain thinks — with safety enforced by silicon geometry, pathways that physically cannot execute an unsafe command. Bearing wear, motor chatter, and RF are the same mathematics; one architecture climbs the whole ladder.

THE MISSION

Measure the universe as it is intended — not by truncating and estimating its truth. Autocosc builds machines whose internal geometry matches nature's, so the spinning world is counted exactly. The RF ear is the first instrument of that mission; the reflex tier beneath physical AI is its horizon.



AUTOCOSC-RF-V1 · 902–928 MHz VALIDATION BOARD —
DESIGN RENDER, NOT FABRICATED

 μ A-class always-on target**3** U.S. provisional patents filedFirst band **902–928 MHz****Pittsburgh, PA** · Founded 2025