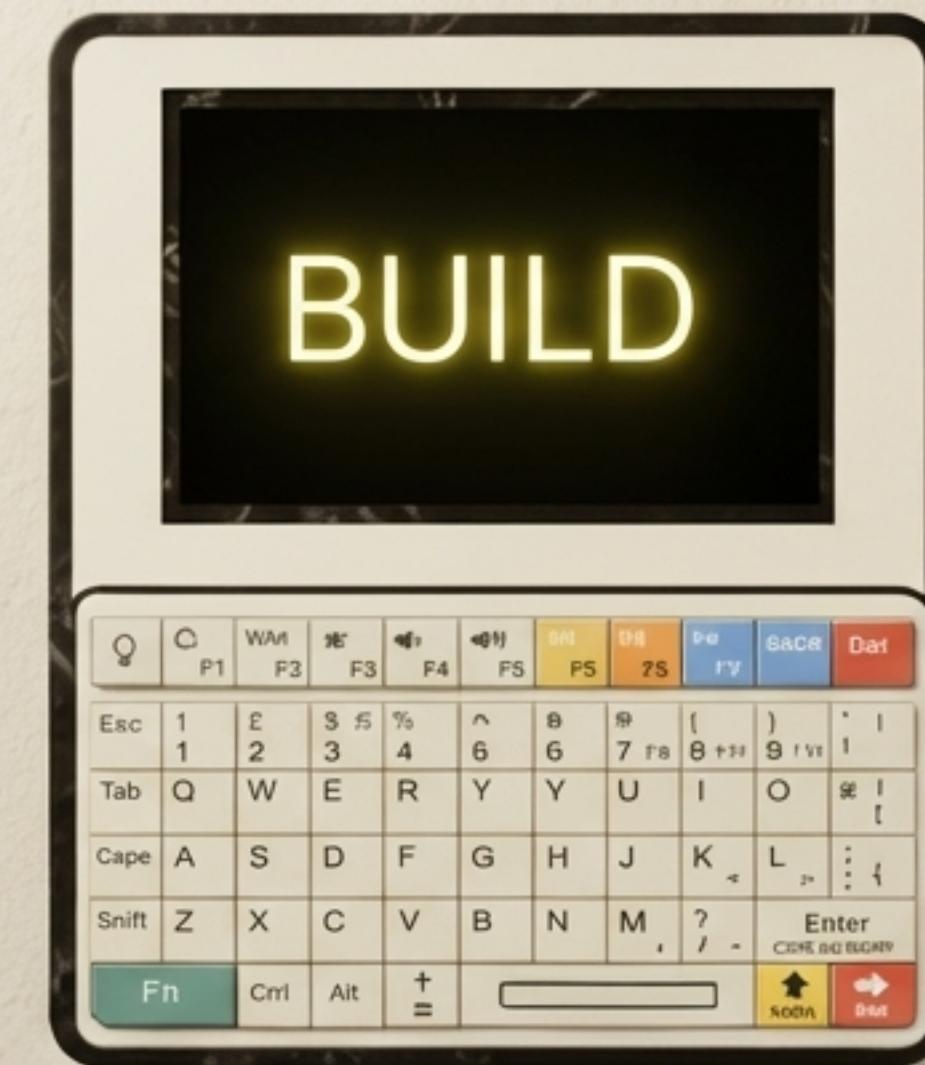


# FORGE

The future belongs to people who **build**



A Manifesto by Lee Akpareva, Founder & Builder, NAVADA.

# A Builder First.

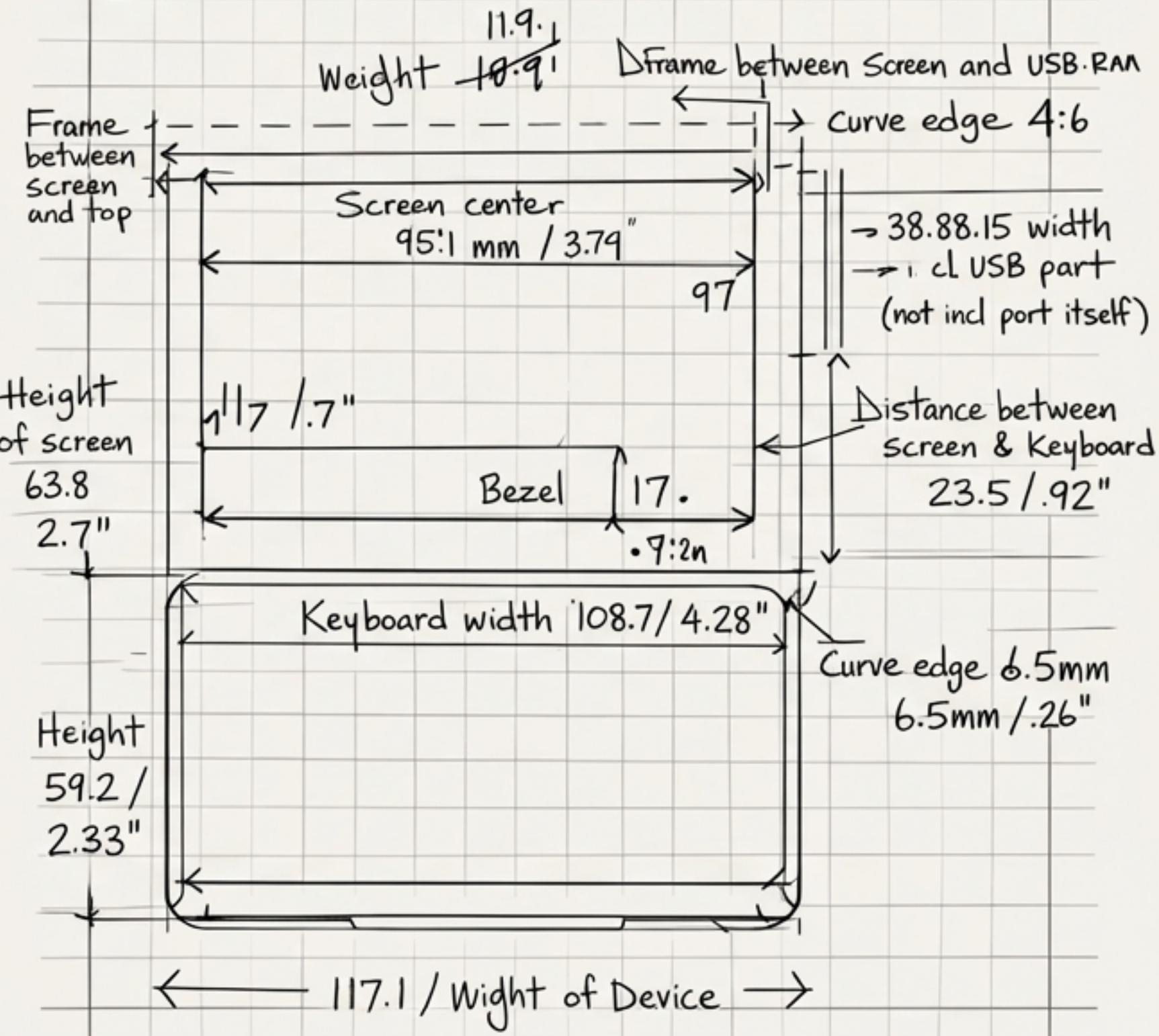
My passion has never been limited to software or hardware alone — it lives in the space where **code, physical systems, design, and real-world impact intersect**.

I don't just design products — I **prototype them**, tear them apart, rebuild them, and document the process so others can learn alongside me.

FORGE exists because I believe learning should be tactile, transparent, and empowering.

Lee Akpareva, MBA, MA

Screen thickness 6:9.



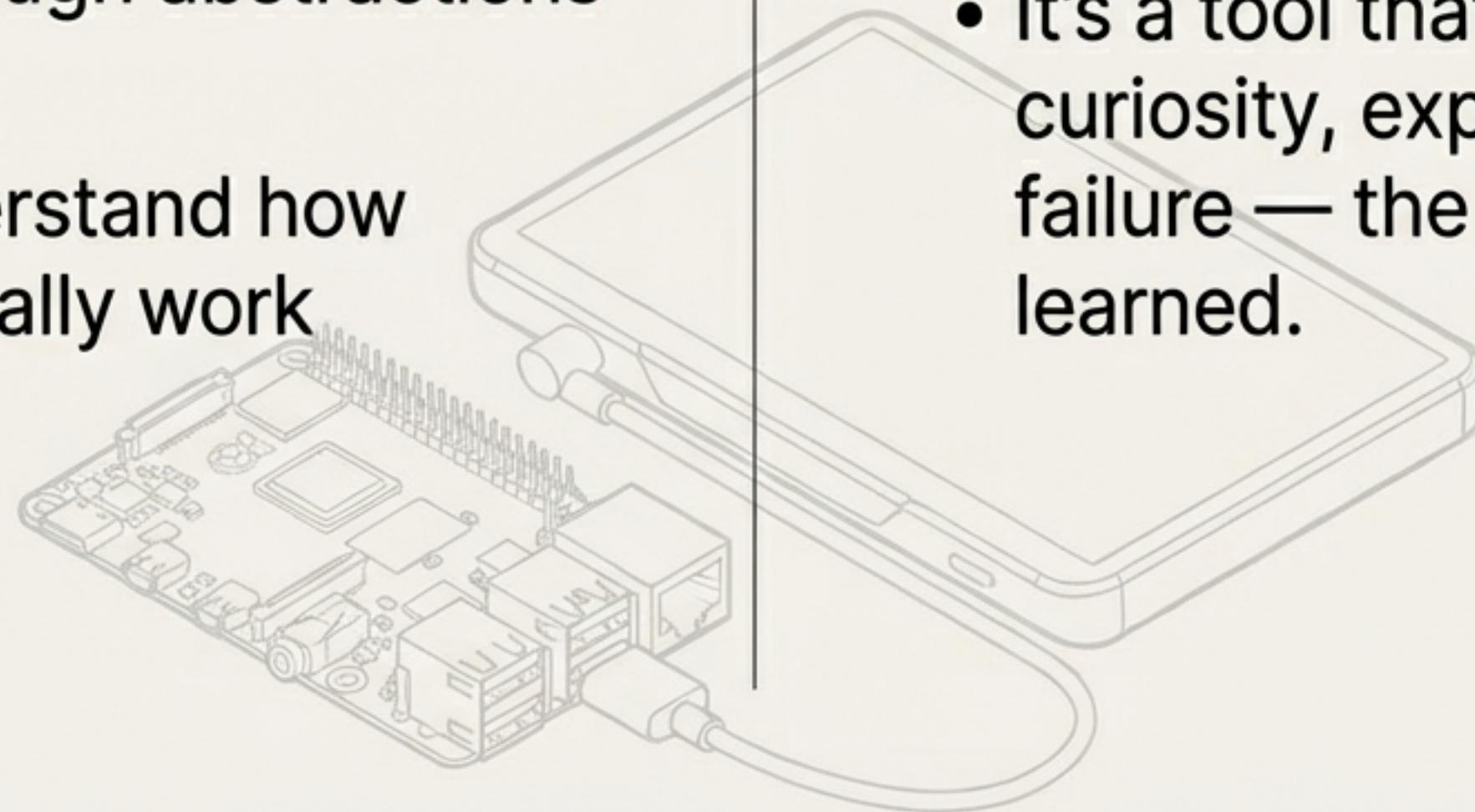
# Why FORGE Had to Exist.

## The Problem

- Too many people learn AI and software through abstractions alone.
- Too few understand how systems actually work end-to-end.

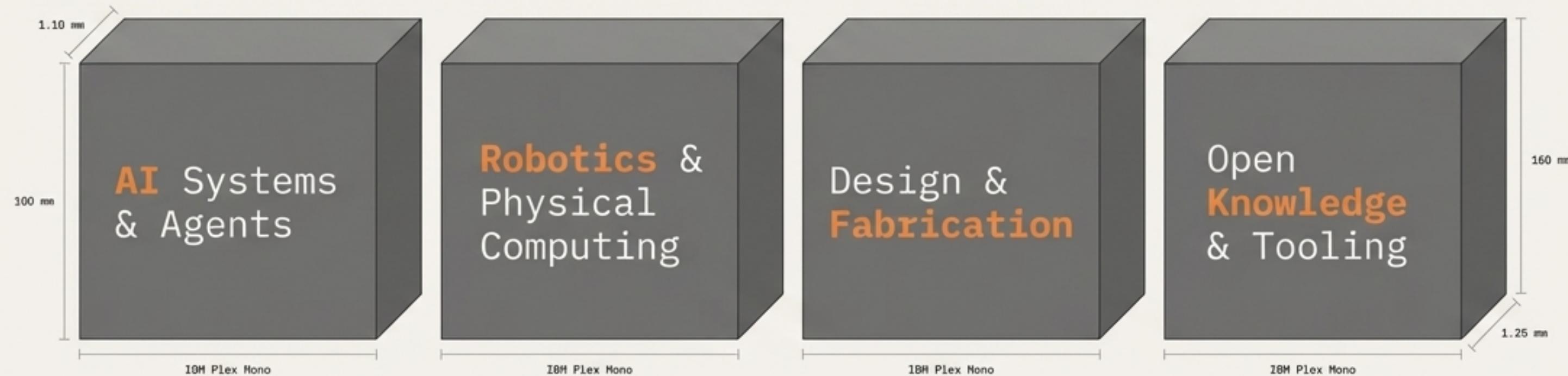
## The Solution

- FORGE changes that.
- It's a tool that encourages curiosity, experimentation, and failure — the same way I learned.



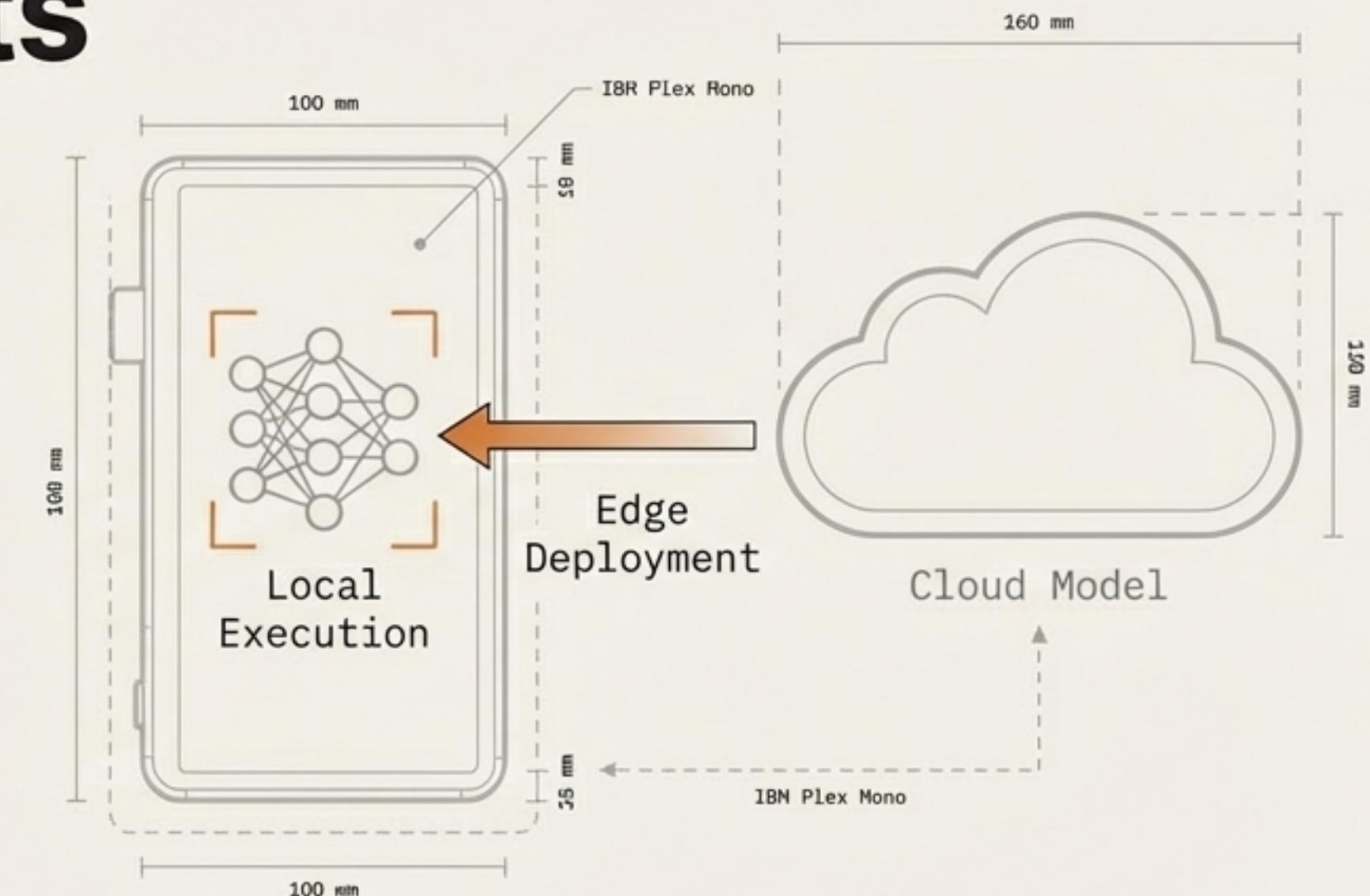
# Built in Five Days Because It *Could* Be.

FORGE wasn't built in five days by accident. It came together in under a week because it stands on years of hands-on work, experimentation, and iteration. Each project was a stepping stone. FORGE is where they converge.



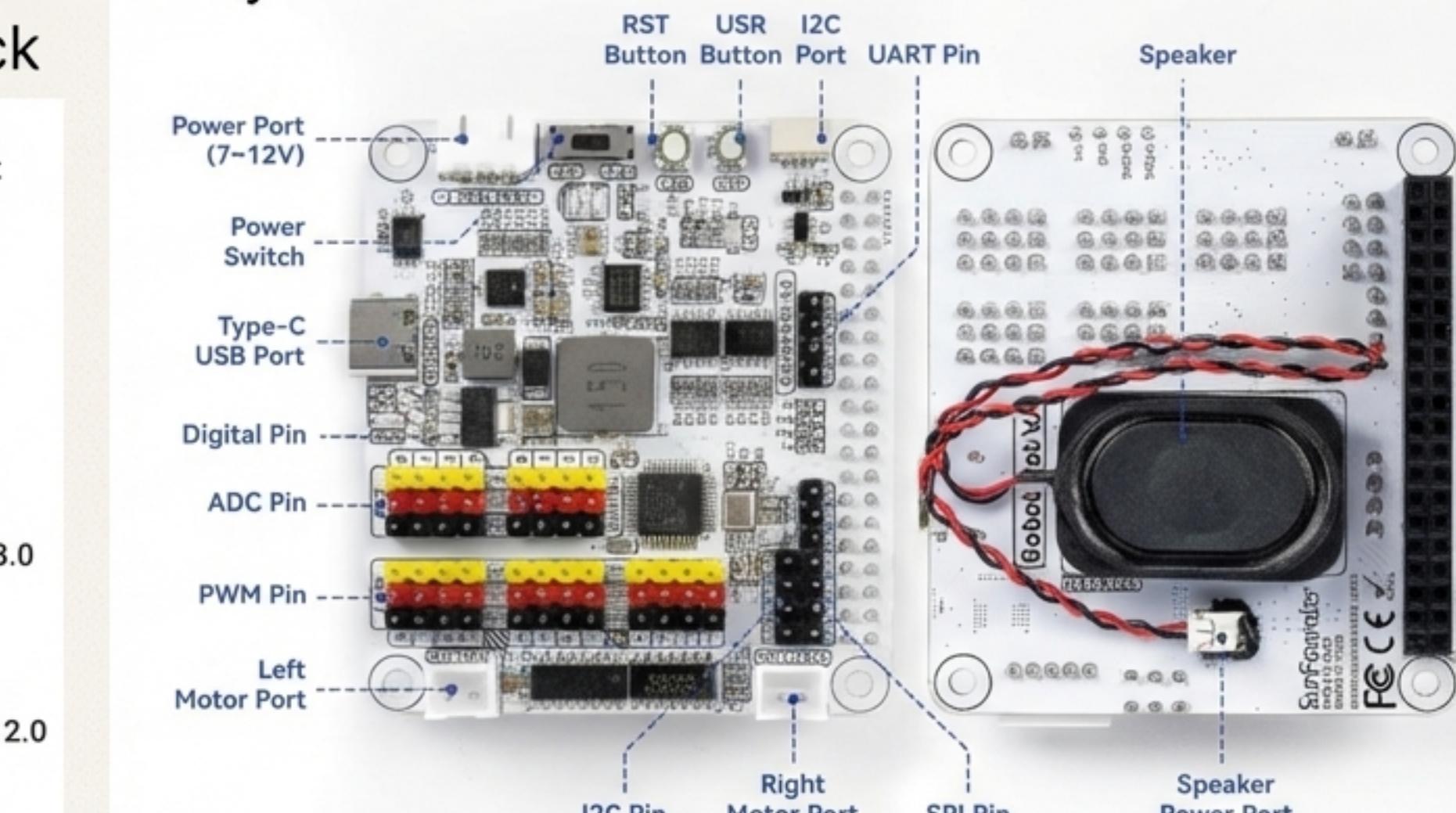
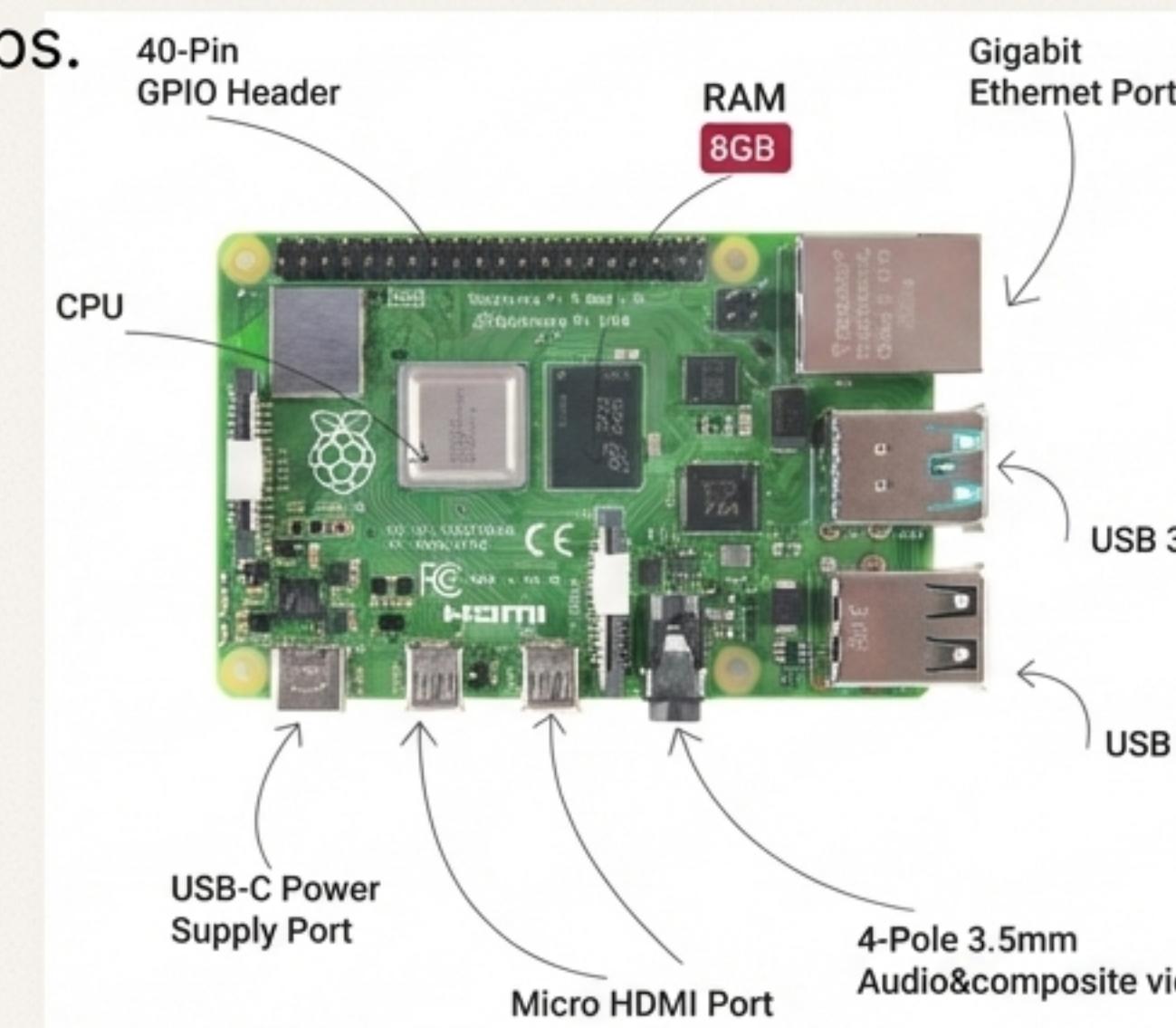
# Foundation 1: AI Systems & Agents

- Built and deployed multiple AI agents for research, automation, and experimentation.
- Explored edge-AI and local model execution.
- Designed frameworks for responsible, explainable AI use.



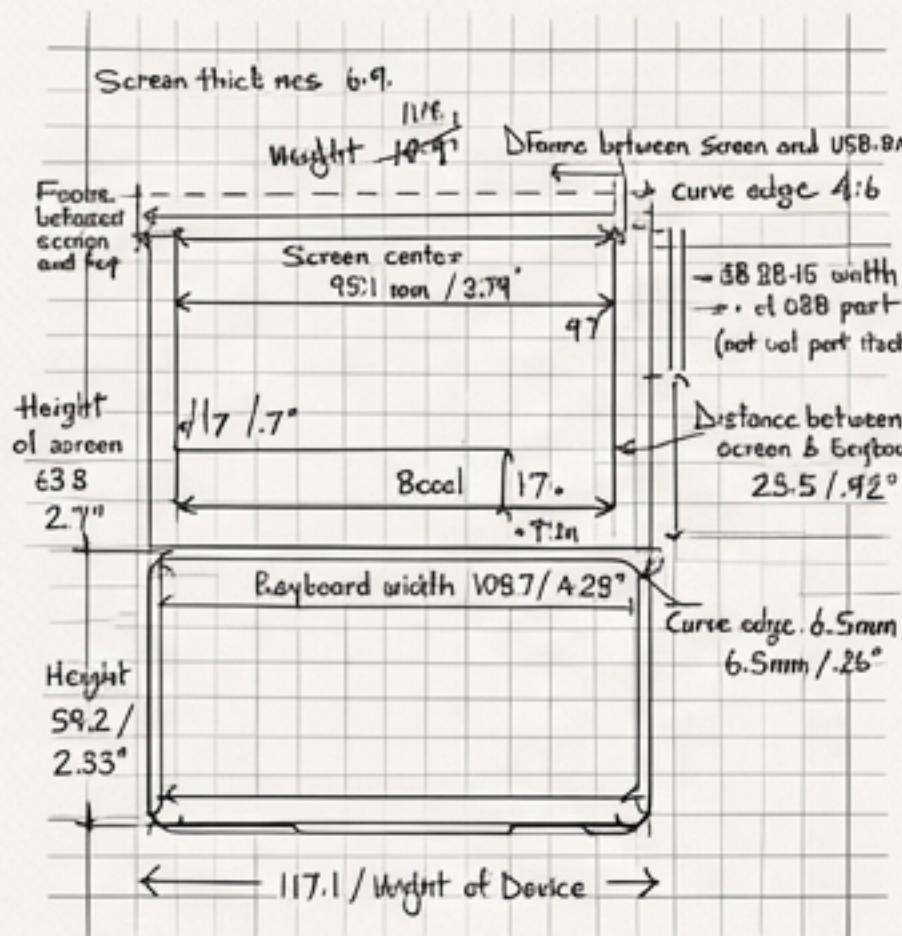
# Foundation 2: Robotics & Physical Computing

- Raspberry Pi-based robotics systems.
- Servo-driven prototypes, sensors, and camera systems.
- Real-time hardware control and feedback loops.

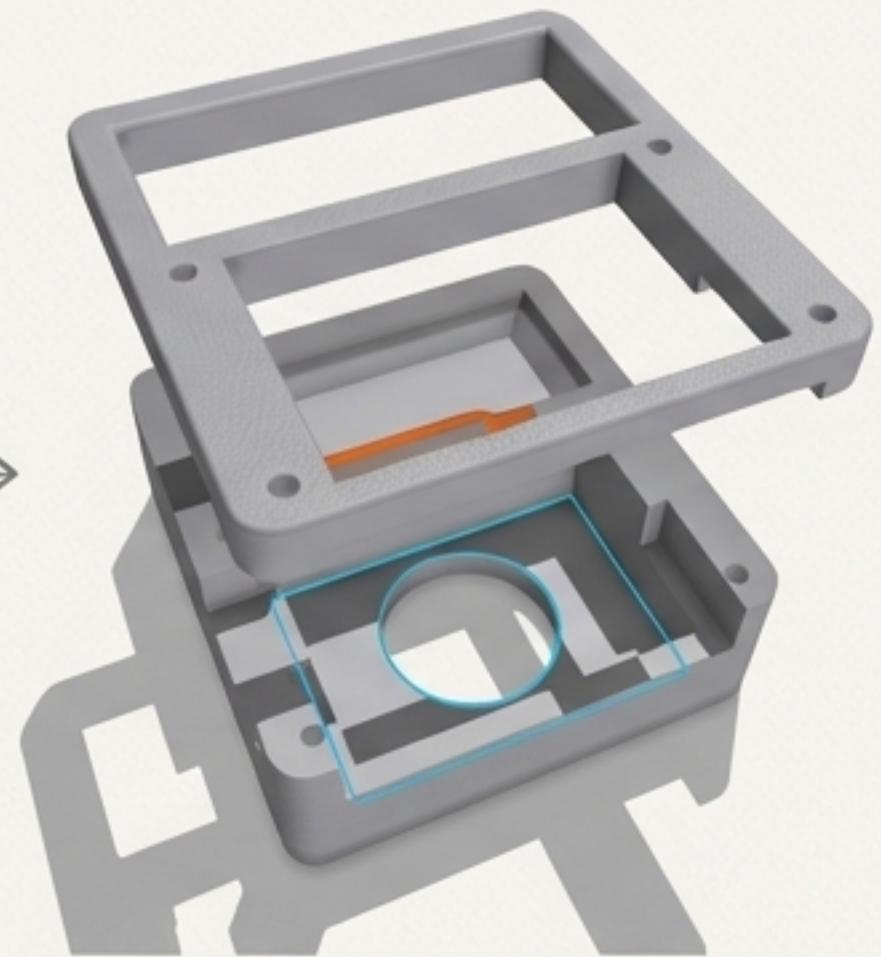


# Foundation 3: Design & Fabrication

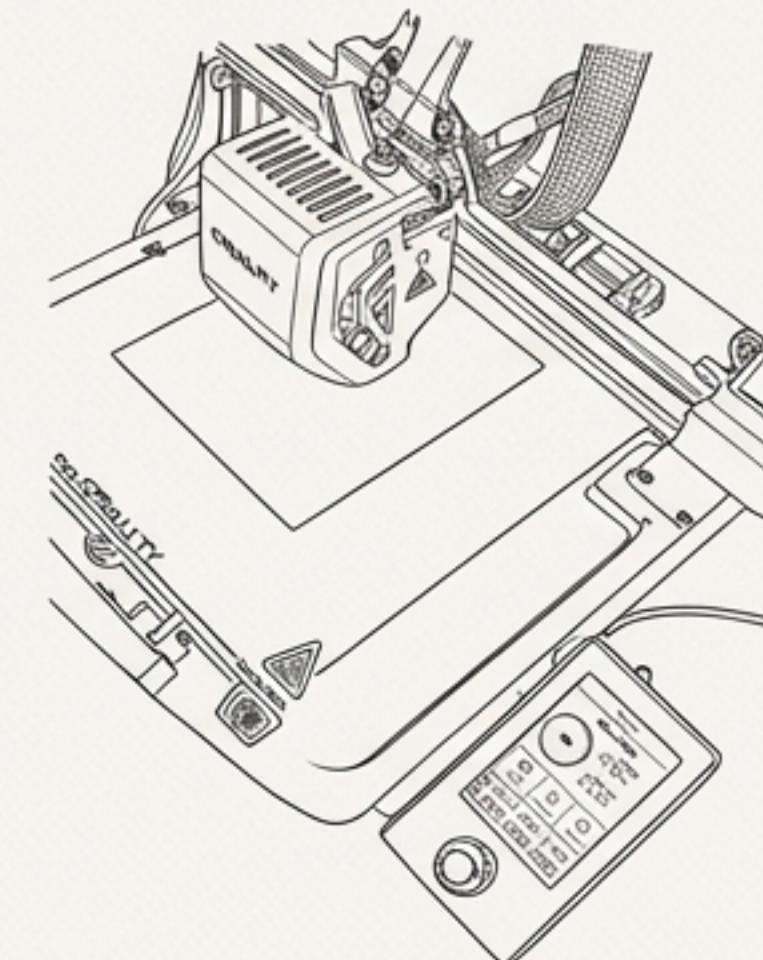
- Parametric CAD design for enclosures and devices.
- Rapid iteration using **3D printing**.
- Hands-on mechanical problem solving.



1. Initial Idea & Sketch



2. Parametric CAD Design



3. Physical Fabrication

# Foundation 4: Open Knowledge & Tooling

- Documented builds and processes for others to follow.
- Shared frameworks, models, and workflows openly.
- Focused on demystifying AI and hardware for new builders.



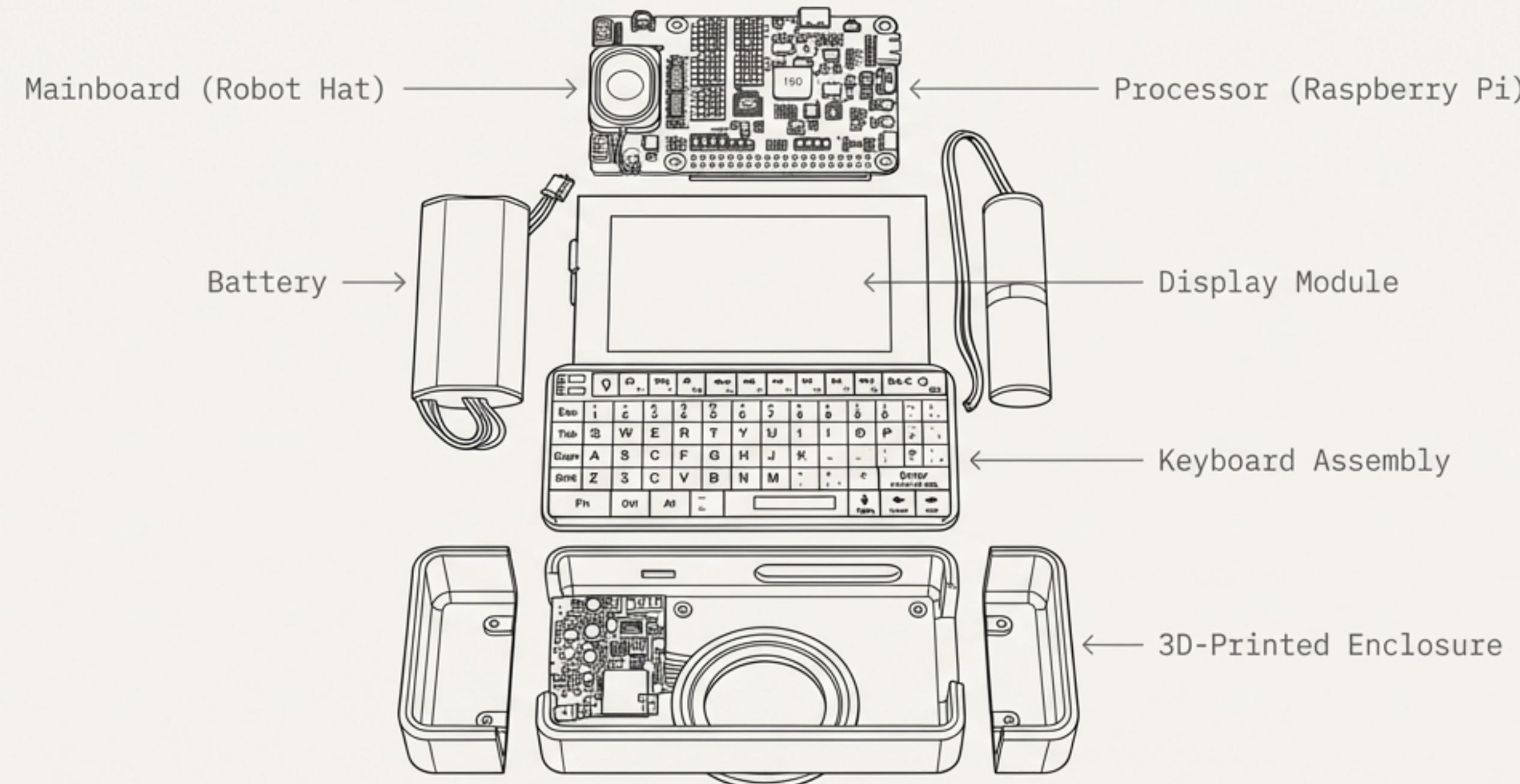
# Introducing FORGE.

The convergence of AI, code, hardware, and creation in a single, portable form factor.



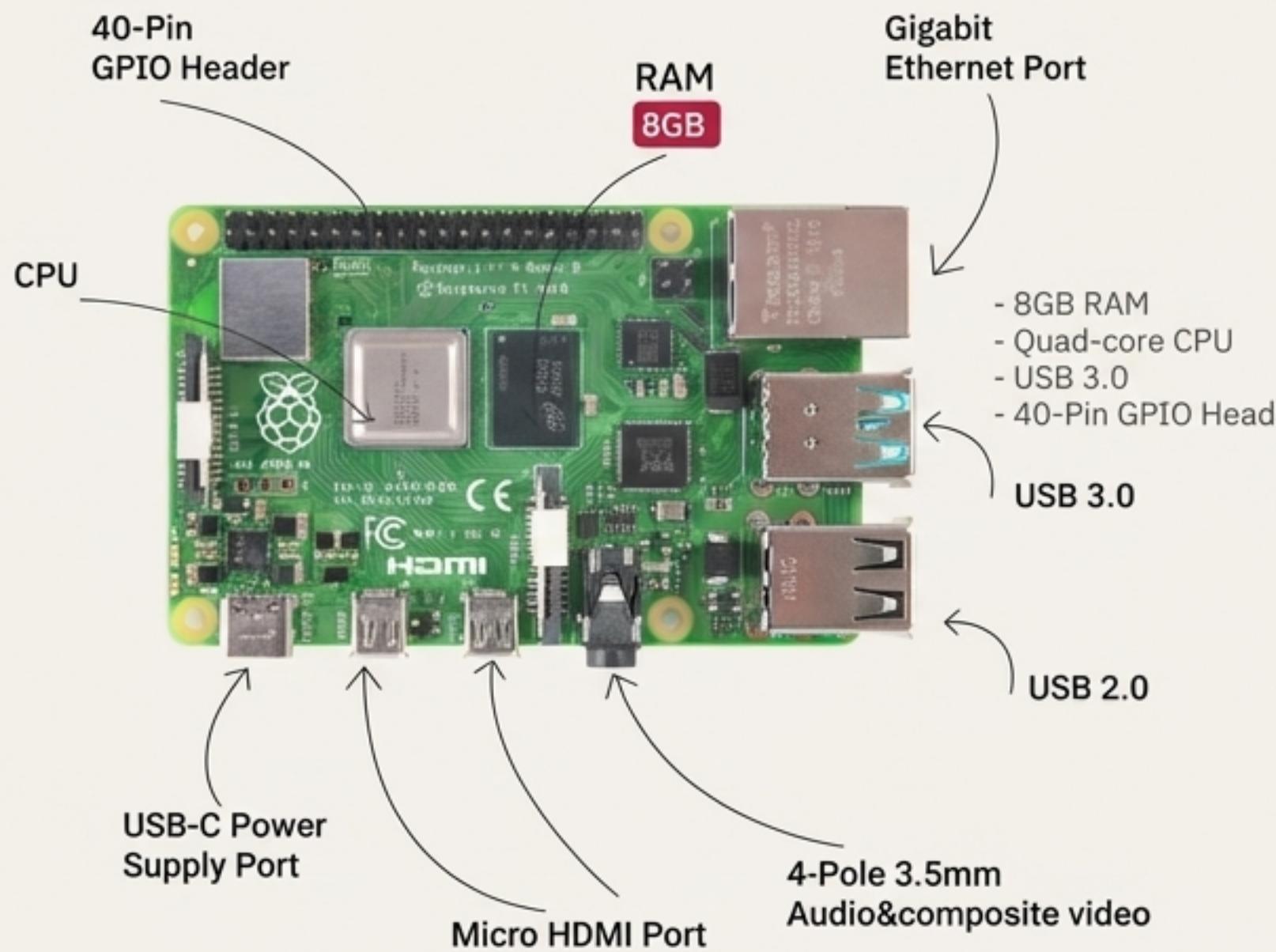
# The Anatomy of a Builder's Tool.

A handheld, open-source computing device designed to teach coding, AI, hardware, and design in the most honest way possible — by **doing**.

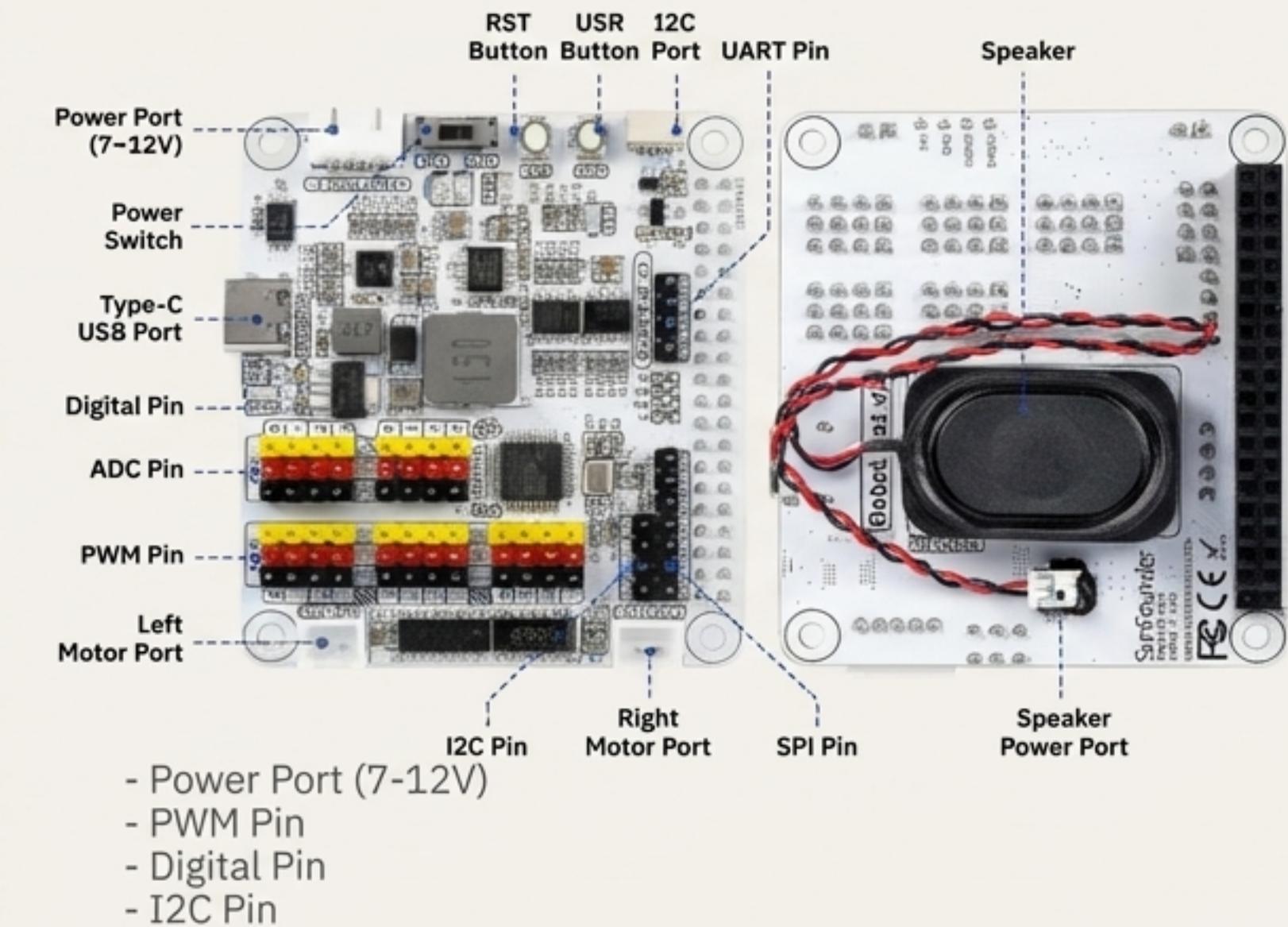


# Inside FORGE: The Core Components.

## The Brain: Raspberry Pi



## The Interface: Robot Hat

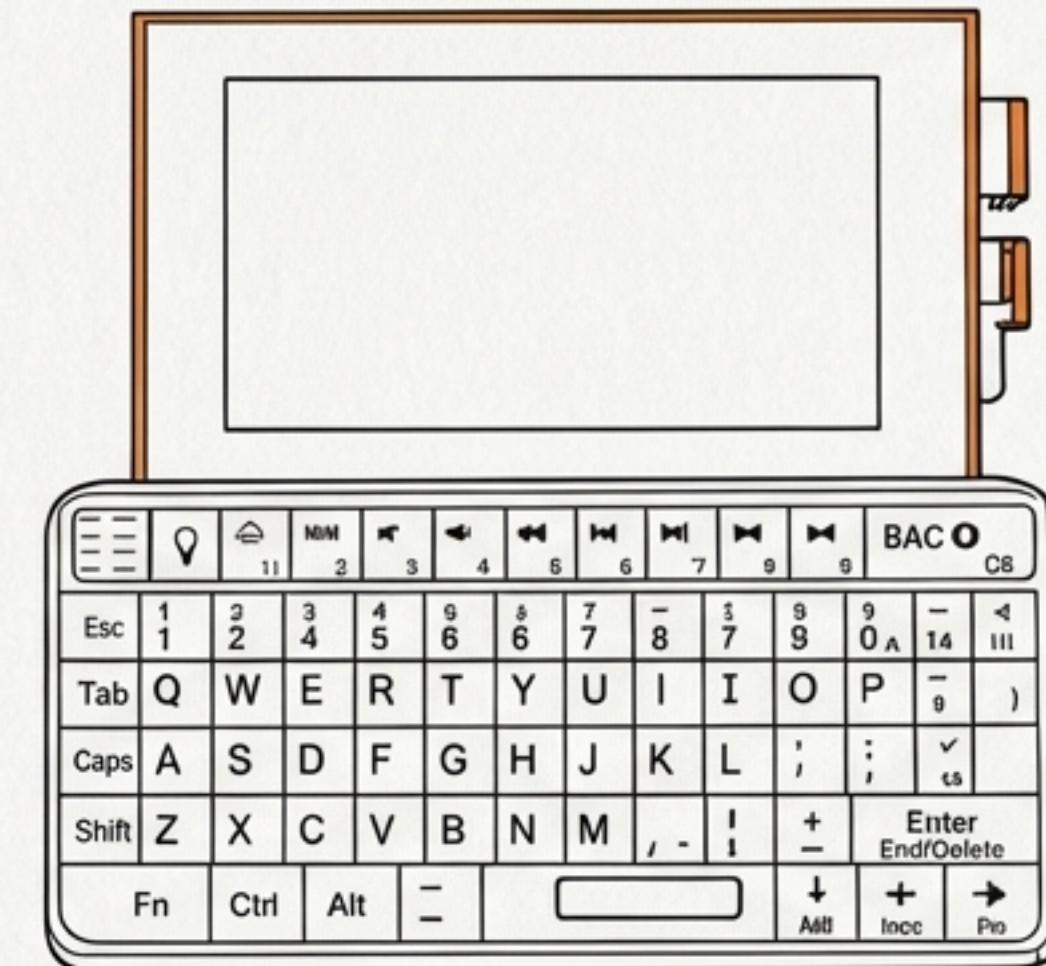


**This device is not the end product—  
—it's the **starting point**.**



# An Open Invitation to Build.

FORGE is being built in public, in real time,  
with the community.



- The files are open.
- The roadmap is evolving.
- The learning never stops.



**Lee Akpareva, MBA, MA**  
Founder & Builder

**NAVADA**