

Quick intro



<https://www.linkedin.com/in/scottmilich>



<https://github.com/vapors>



Prototyping with Electronics

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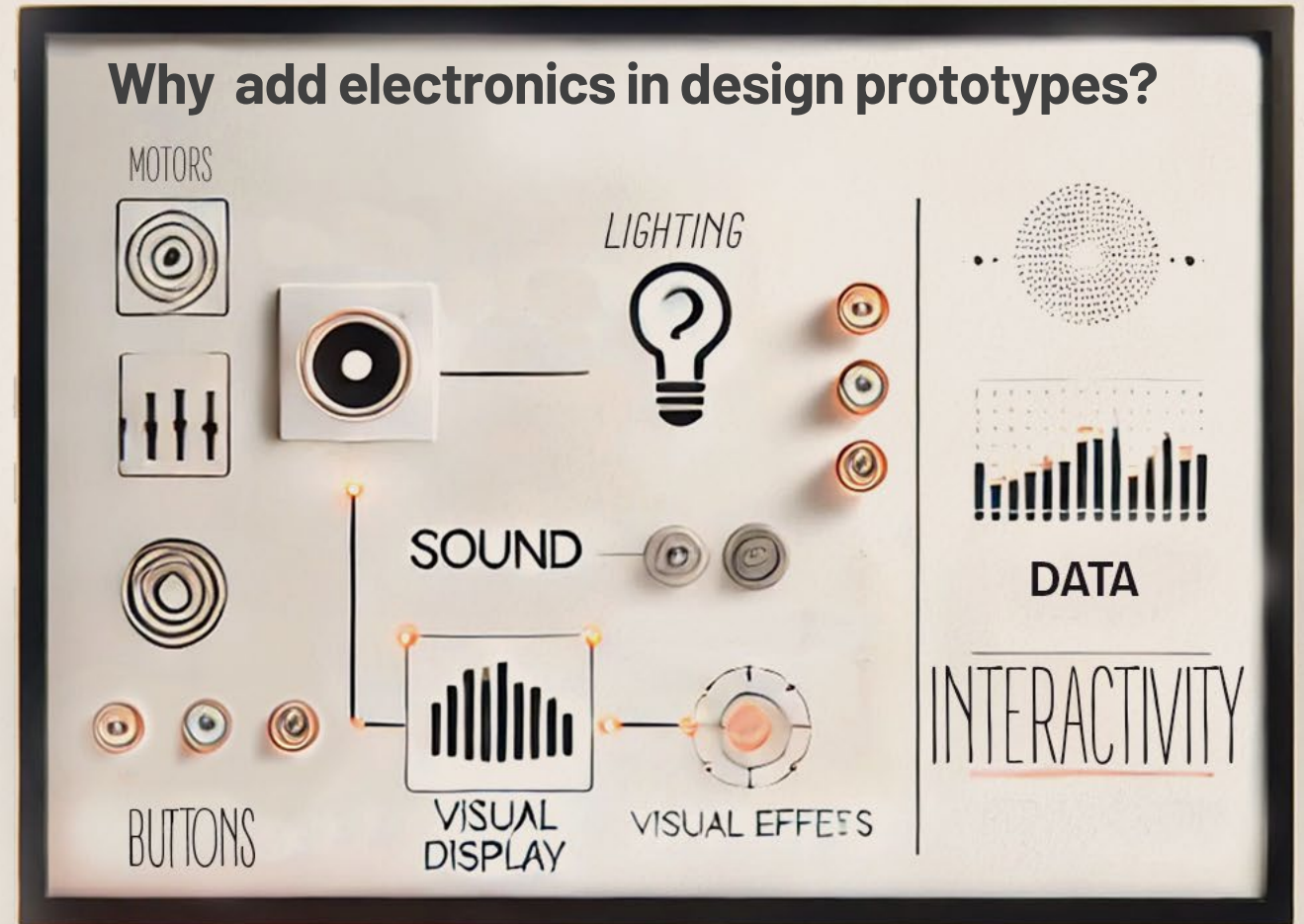
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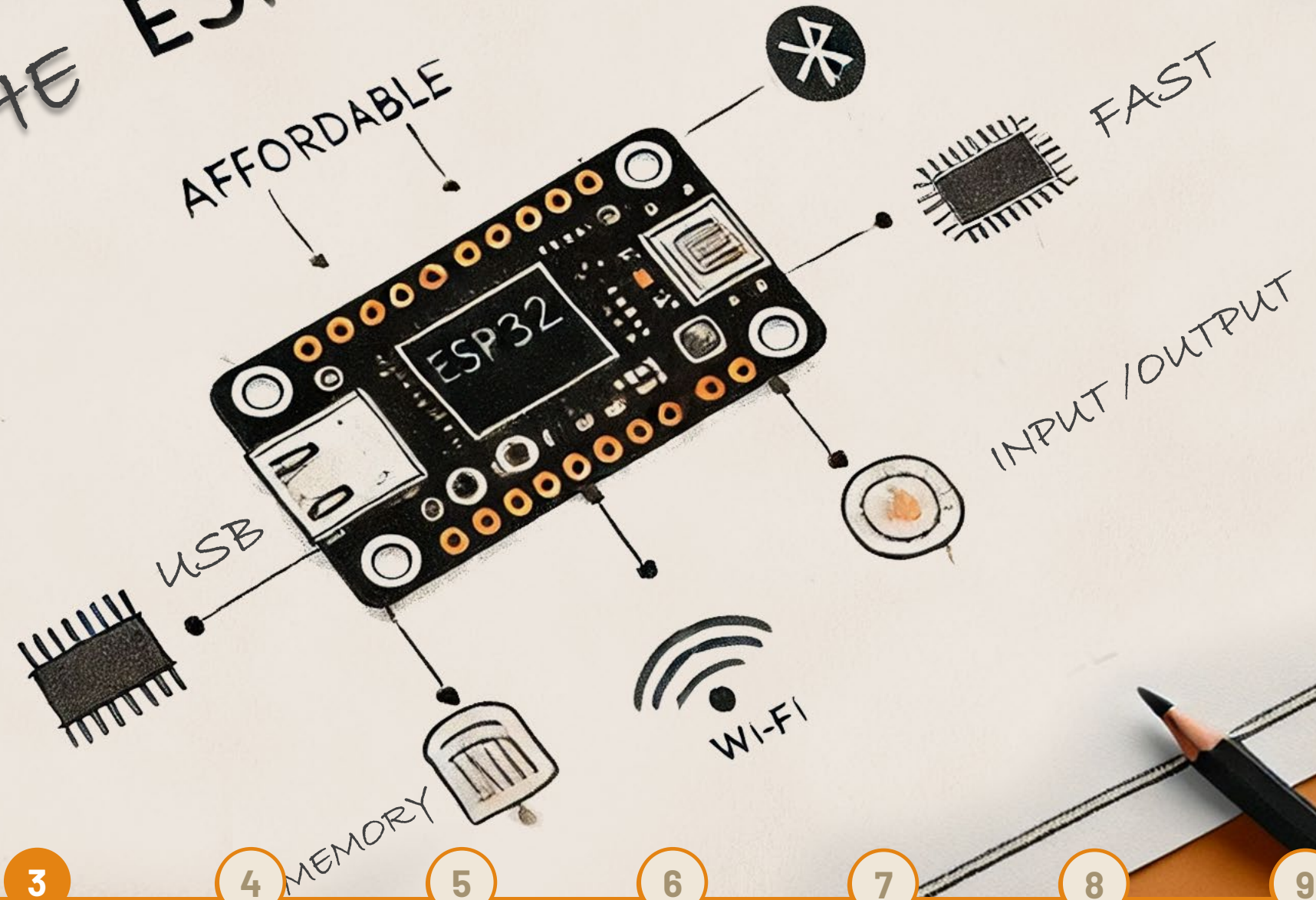
Why

-  Interactivity
-  Functionality
-  Proof of Concept

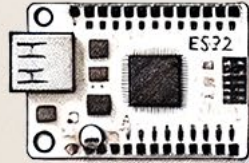




ENTER THE ESP32



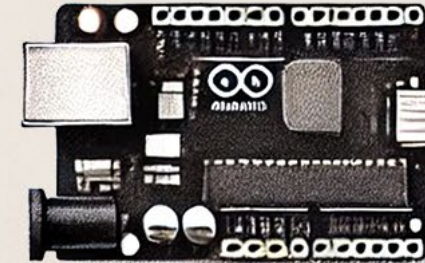
ESP32



Dual processor
Network connectivity
C++ and microPython
Arduino IDE Compatible
Low power and Sleep mode
Small form factor
Many programmable GPIO

VS.

Arduino



Great for simple projects
Simple development environment
Large user community
Large library of programs

SOME COOL THINGS WORK WITH AN ESP32

Full color displays

Gyroscopes

Cameras

Digital audio IN/OUT

Led controllers

Battery charging

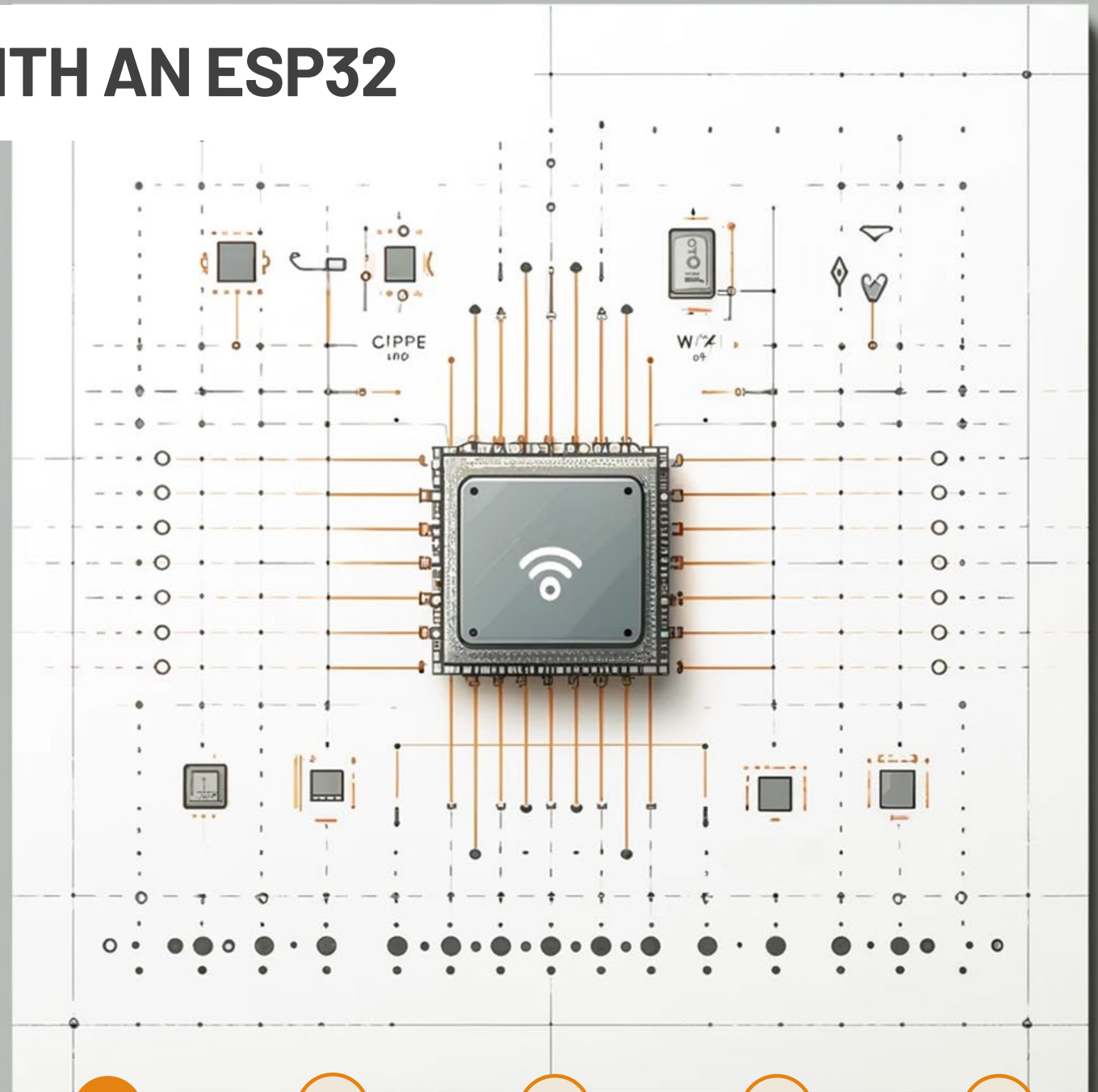
GPS / LTE

Lora

Humidity

Temperature

Motors



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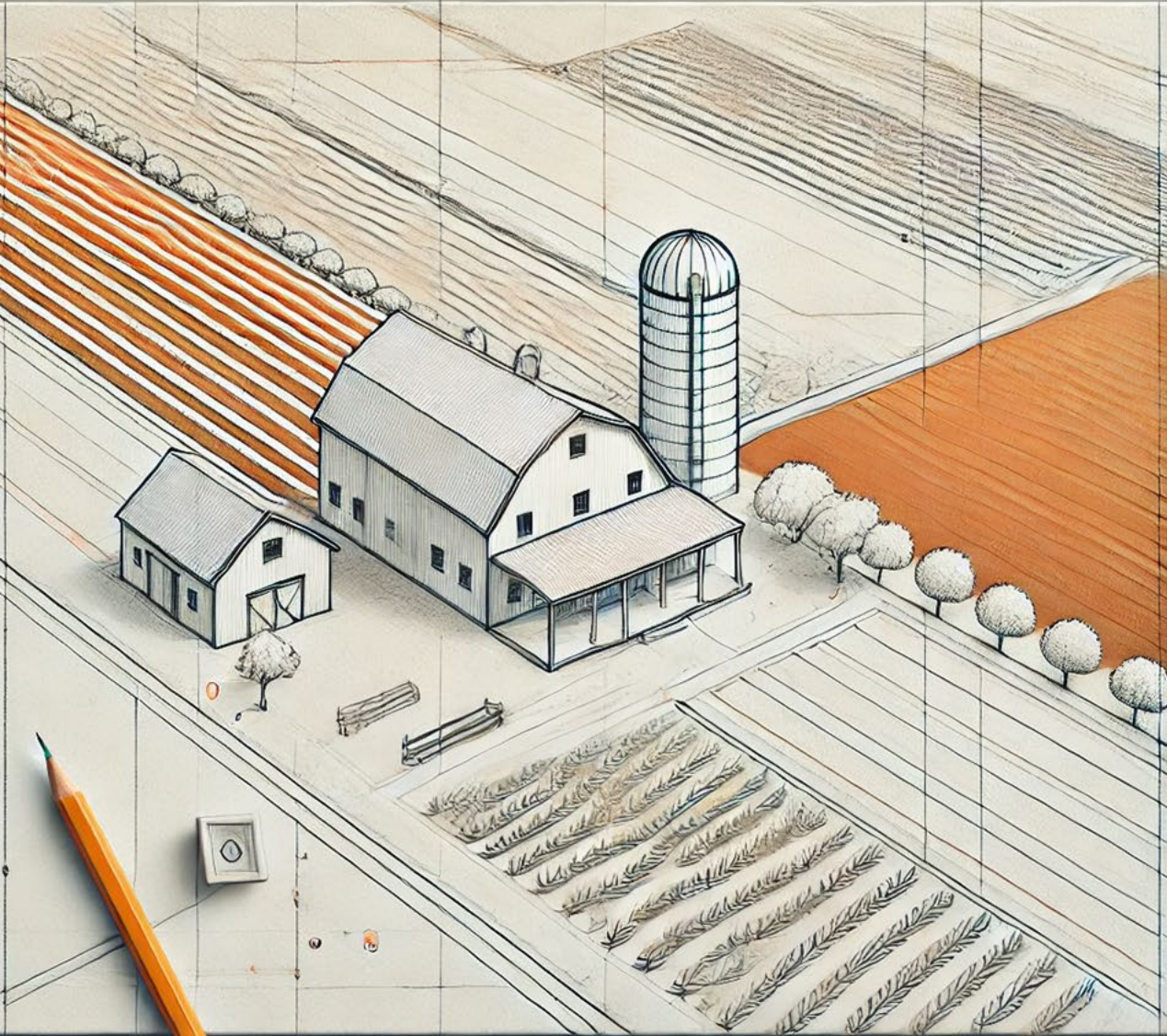
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REAL WORLD APPLICATION

USED BY HUNDREDS OF COMPANIES AND INDUSTRIES



Farming & Agriculture

Smart Personal devices

Medical Devices

Home Appliances

Security and Access

Emergency Response

Robotics

Manufacturing

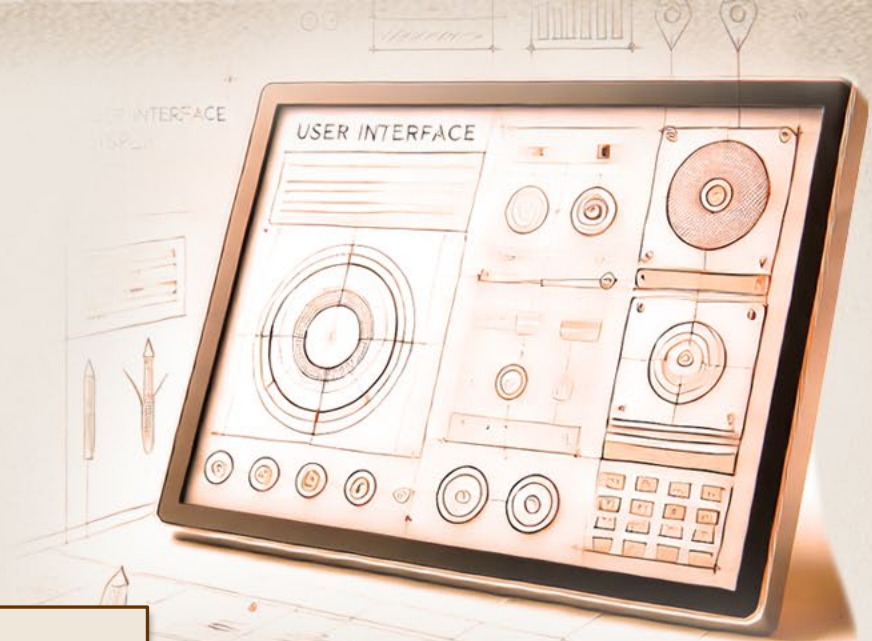
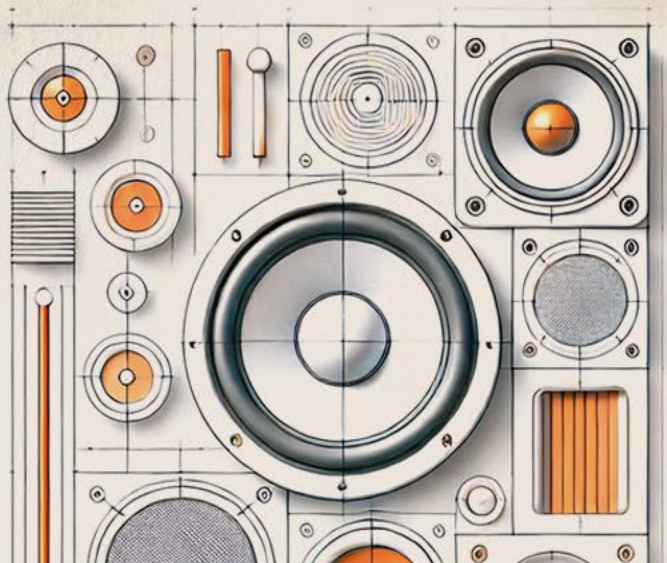
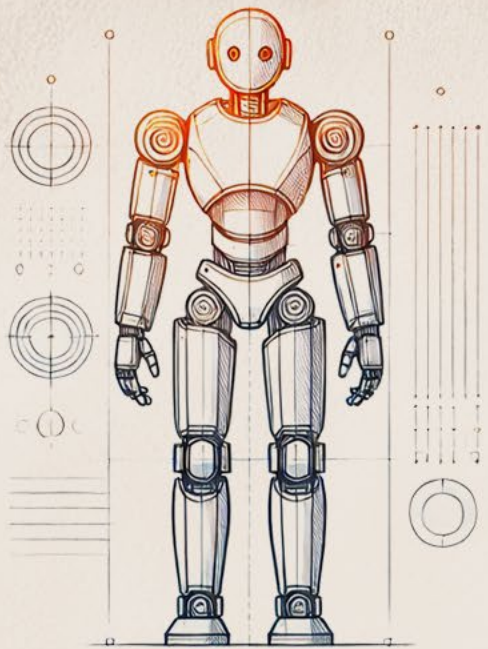
Etc...

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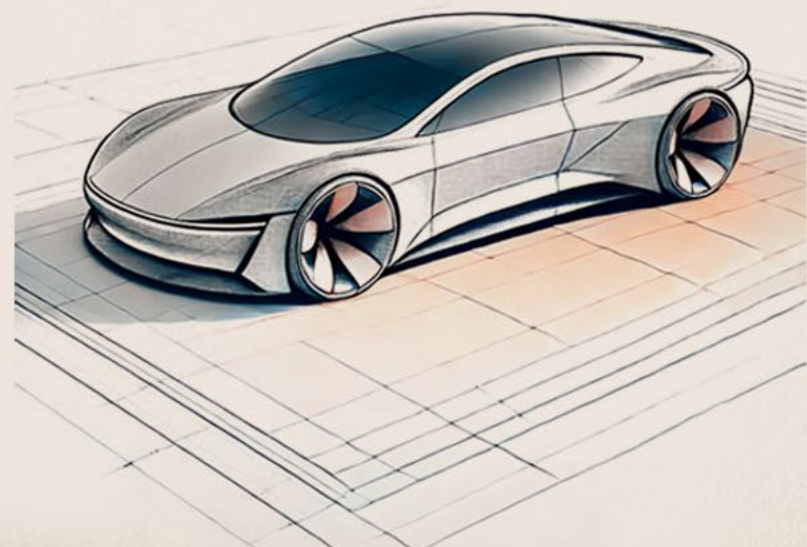
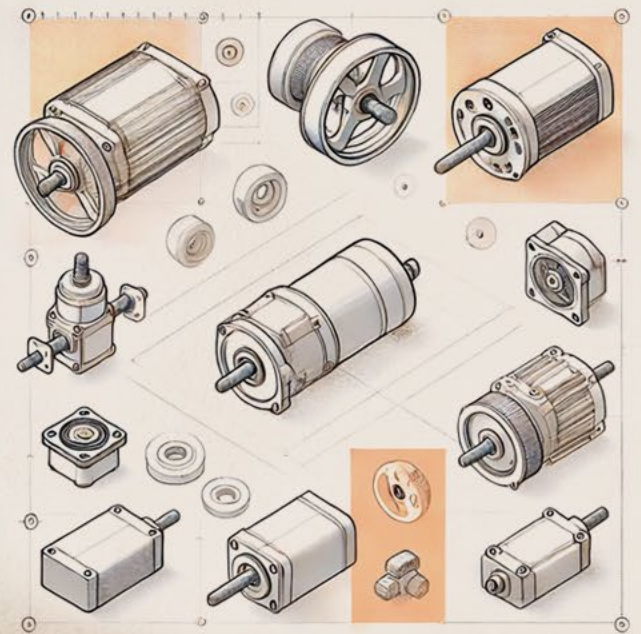
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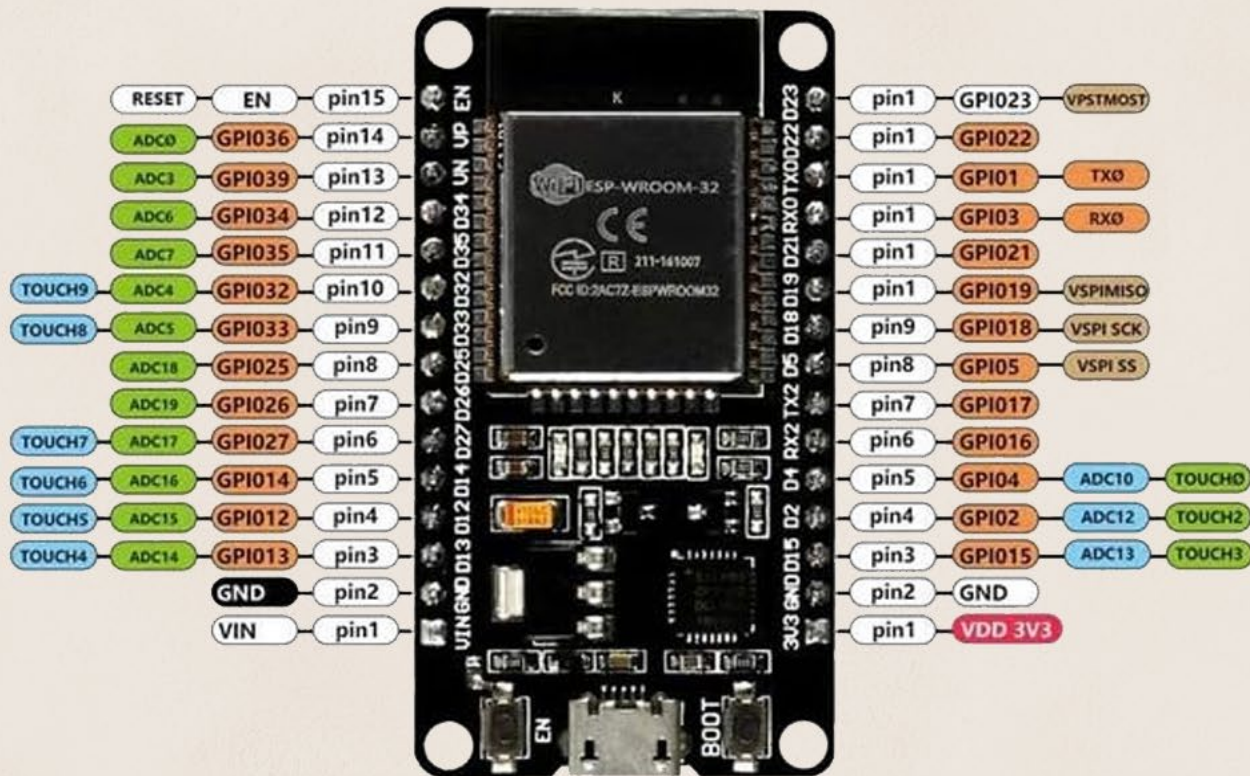
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Prototype ideas



Make Something Cool





Questions