

CATEGORY

THE BOT BUILDER

SENSE

The Perceptors

These components gather raw data and measure the physical or digital environment. They answer the question: "What is happening around me?"

Hi, Bot

CATEGORY

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THINK

The Processors

These components store rules, analyze data, and make decisions. They answer the question: "What should I do with this information?"

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ACT

The Actuators

These components execute physical or digital actions. They answer the question: "How do I change my environment based on the decision?"

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POWER

The Energy Sources

These components provide the electrical or physical fuel required to run the other three systems. Without this, the loop dies.

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ITEM

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LiDAR Turret

HINT

Spins rapidly and shoots lasers to measure distance and create a 2D map of the room.

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Microprocessor (CPU)

HINT

The central chip that calculates algorithms and processes incoming data.

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DC Motor

HINT

Converts electrical energy into rotational movement to spin a robot's wheels.

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Lithium-Ion Battery

HINT

A rechargeable cell that holds electrical charge for mobile robots.

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Ultrasonic Bumper

HINT

Sends out high-frequency sound waves to detect if an object is immediately in front of the robot.

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Motherboard

HINT

The main circuit board that connects memory, processing chips, and incoming data cables.

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Hydraulic Arm

HINT

Uses pressurized fluid to physically lift heavy objects and move them to a new location.

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Solar Panel

HINT

Photovoltaic cells that convert sunlight directly into usable electrical energy.

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Digital Thermometer

HINT

Measures the ambient temperature of a room to prevent the machine from overheating.

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"IF/THEN" Code Script

HINT

The programmed software rules that tell the system how to react to specific triggers.

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Audio Speaker

HINT

Pushes air to create sound waves, allowing the bot to generate a warning beep or spoken word.

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120V Wall Outlet Cord

HINT

Provides direct, continuous alternating current from a building's electrical grid.

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HD Camera Lens

HINT

Captures visual light and translates it into a digital image feed.

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Neural Network Model

HINT

Advanced AI software that recognizes patterns in data to predict the best outcome.

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LED Display Screen

HINT

Illuminates pixels to show text, numbers, or expressions to human users.

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ITEM

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Hydrogen Fuel Cell

HINT

Combines hydrogen and oxygen to generate electricity, with water as the only byproduct.

Category Match:

Hi, Bot