

AURORA

THE ROBOT

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A humanoid concept for
everyday home assistance.



Designed at
human scale

160–170

cm target height

White protective shell
Black mechanical joints
Dark visor with blue illumination



A focused starting scope

Proposed household tasks, subject to engineering validation.

01

Cleaning support

Explore simple surface cleaning in a defined area.

02

Object collection

Identify and move familiar objects within tested limits.

03

Basic assistance

Respond to a clear request and report the outcome.

A request becomes a checked action

01

Voice

Understand the user's request.

02

Perception

Locate relevant objects and free space.

03

Planning

Choose a task within the allowed scope.

04

Control

Navigate and manipulate within validated limits.

Human permission and an independent safety path must constrain every stage.

What must work together

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- | | | |
|----|---------------------------|---|
| 01 | Perception and navigation | Understand changing rooms, obstacles and uncertain sensor data. |
| 02 | Balance and manipulation | Coordinate stable motion with controlled, repeatable object handling. |
| 03 | Power and maintainability | Resolve energy demand, thermal limits and service access. |
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More demanding assistance comes later

Helping with heavier objects requires validated balance, grip and force control.

No payload, runtime or autonomous performance has been established.

