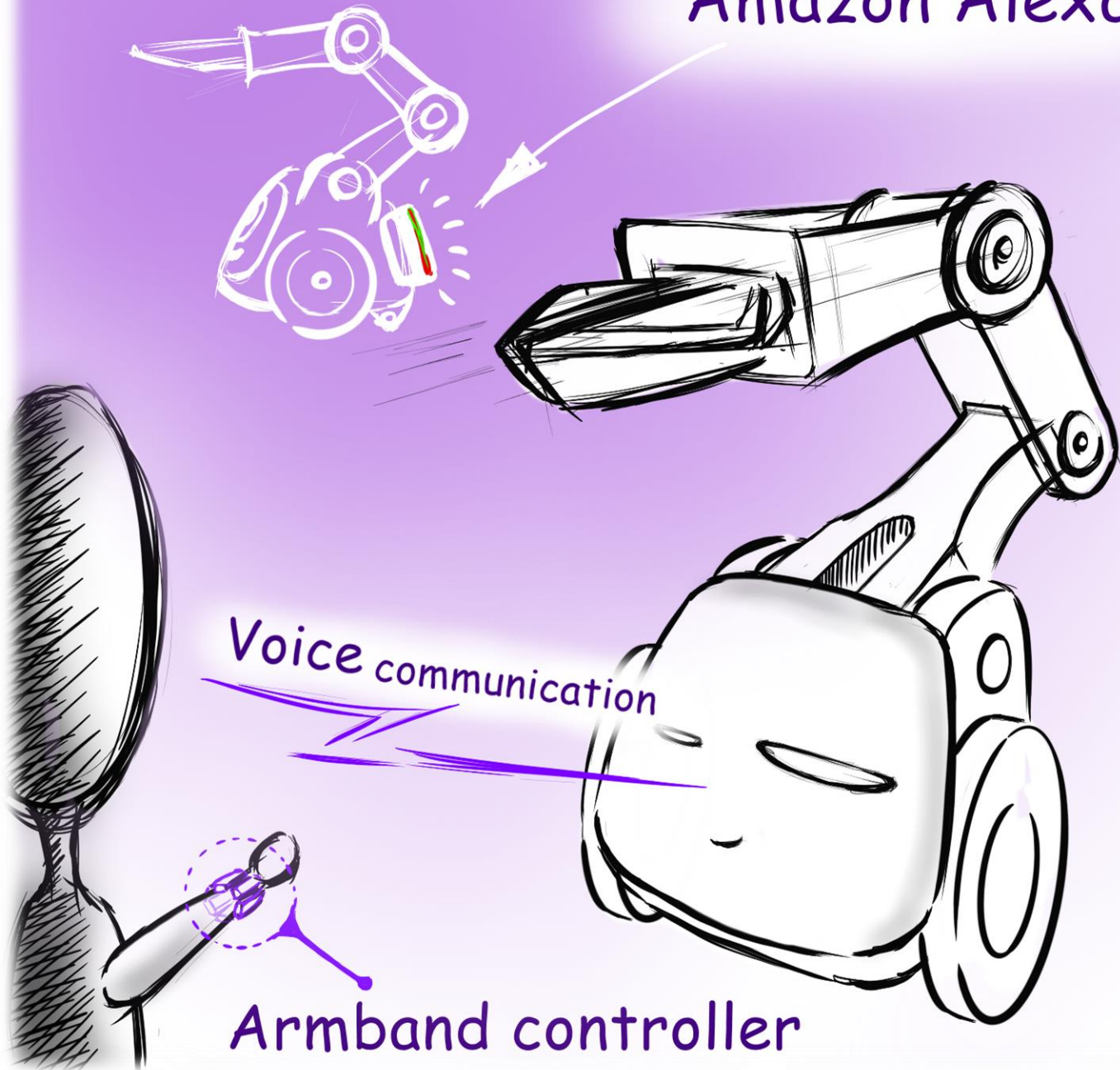


Amazon Alexa



V.GA:

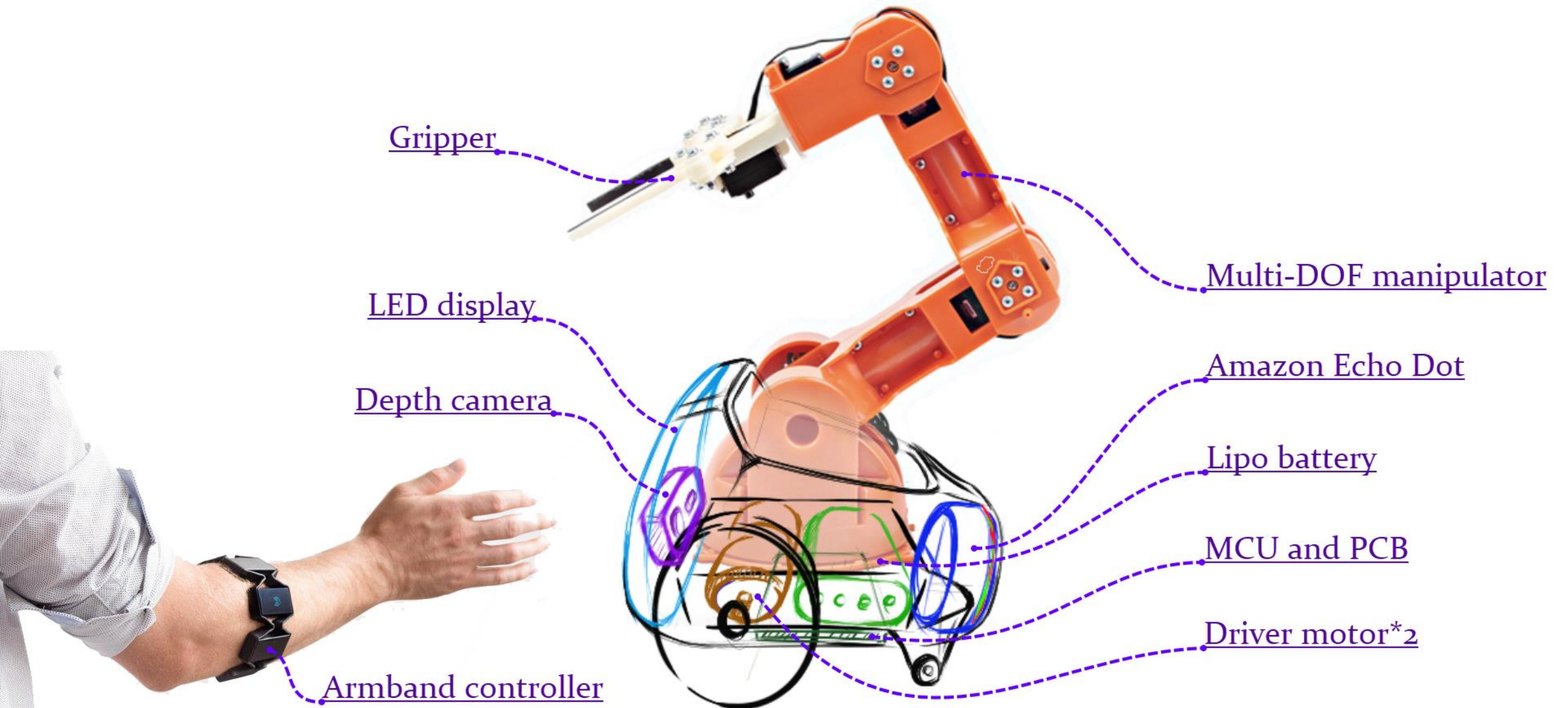
A Voice and Gesture Controlled Robot Assistant

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System design of V.Ga



Interacting with V.Ga using voice



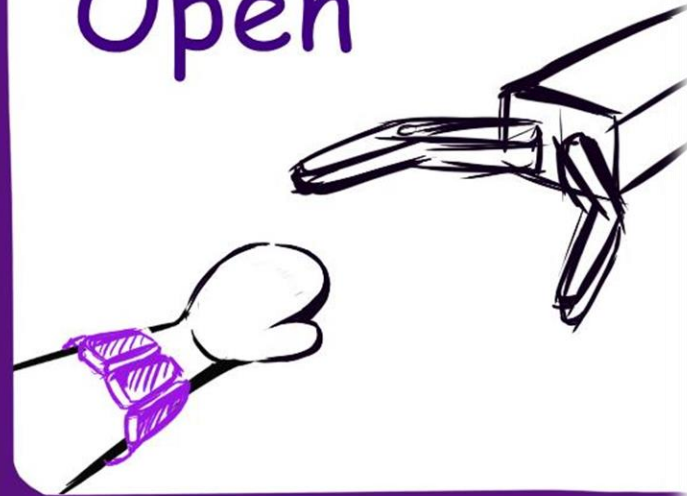
- V.Ga can perform conversational communication powered by Amazon Alexa.
- V.Ga can talk to you and answer questions like *'what's the weather tomorrow ?'*
- V.Ga can physically react to the voice command and execute tasks.
- V.Ga's front face can display visual information as well as facial expression for a more humane interaction

Interacting with V.Ga using gesture

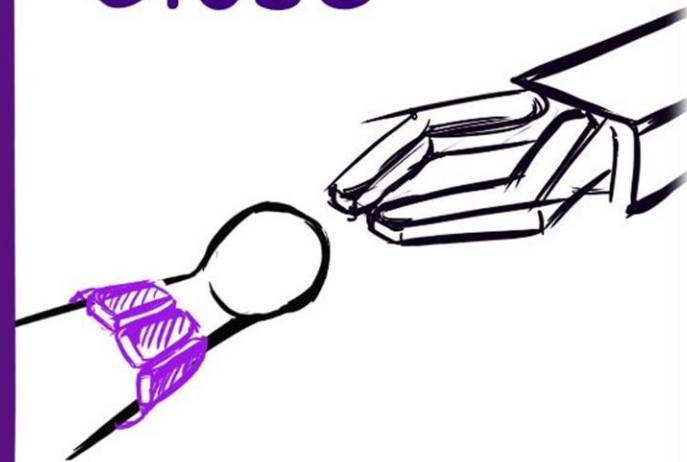
Live Manipulation



Open

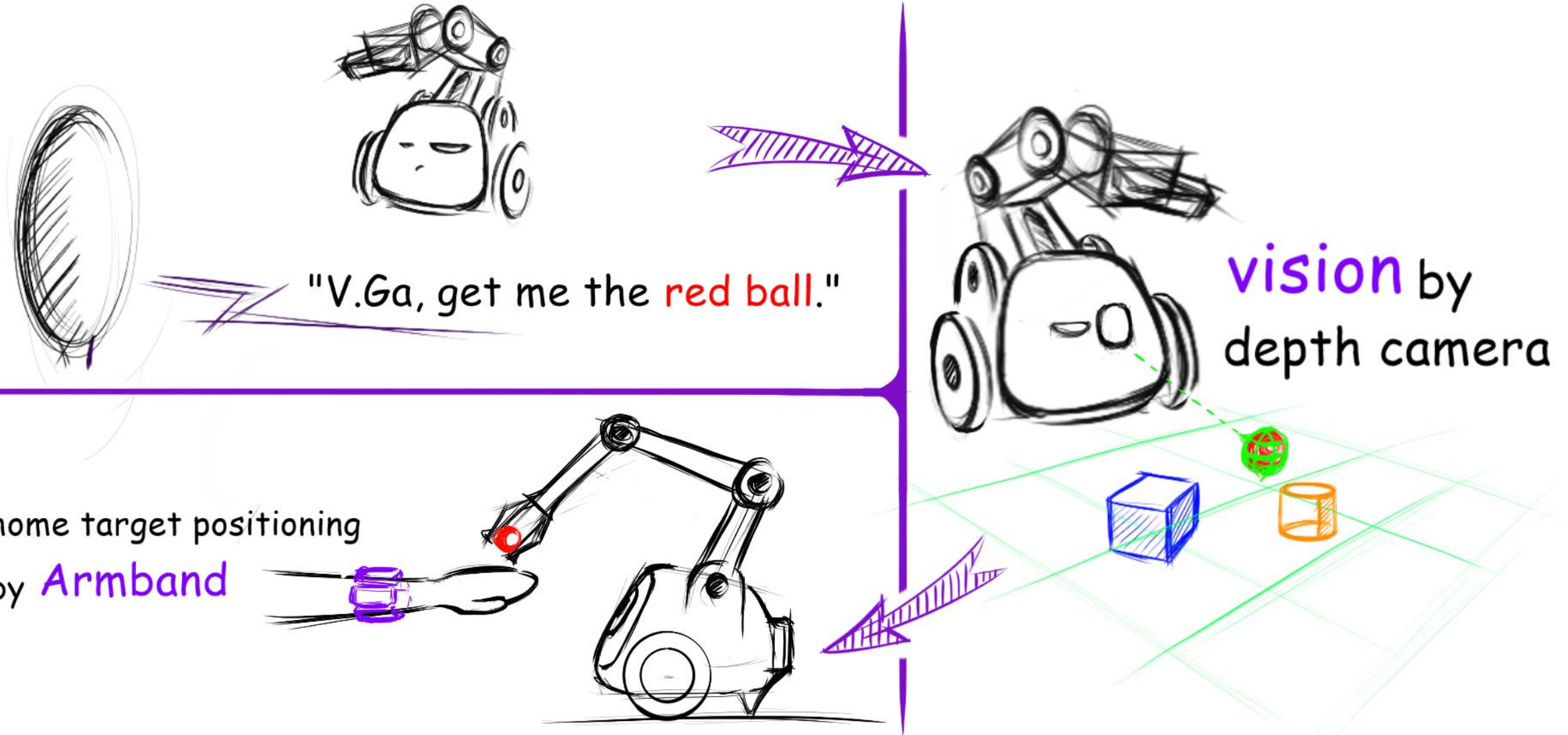


Close



- V.Ga can perform conversational communication powered by Amazon Alexa.
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Example application: *object fetching*



Example application: *'grab it!'* game

Game challenge: user control the Manipulator to grab ball while the robot is moving

