

# Christine Sunu

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Boston Dynamics



Walt Disney Pictures



T



MIT





















A woman with long dark hair, wearing a light-colored cardigan over a dark top, is shown from the chest up. Her eyes are closed, and her hands are clasped together in front of her chest in a prayerful or meditative gesture. The background is dark. A white rounded rectangular box is overlaid on the image, containing the text "emotions are power" in a bold, black, sans-serif font.

**emotions are power**



scary



cute





A white, fluffy creature with large, pointed ears is lying on a wooden surface. The creature's fur is very soft and voluminous, and its eyes are closed. The background is a dark, textured wood grain.

**How do I create**

(the appearance of)

**life?**



# How to make life (like robots)

- 1. the inside** (psychological “life” triggers and interaction)
- 2. the outside** (physical associations and texture)
- 3. the dissonance** (dealing with “alive” and “robot” at the same time)

## **the inside**

(psychological “life” triggers and interaction)



the user



the object





A close-up photograph of a white, fluffy creature, possibly a stuffed animal or a small dog, lying on a wooden surface. The creature has two prominent, white, pointed horns or ears. Its fur is very soft and dense. The background is a dark, textured wooden surface. The text "what does this creature need?" is overlaid in the center in a white, sans-serif font.

what does  
this creature  
need?





**purpose**





^ This is Cozmo, by Anki





^ This is Cozmo, by Anki







**the outside**

(physical associations and texture)





boredpanda.com / imgur.com





HUSKY GRAY

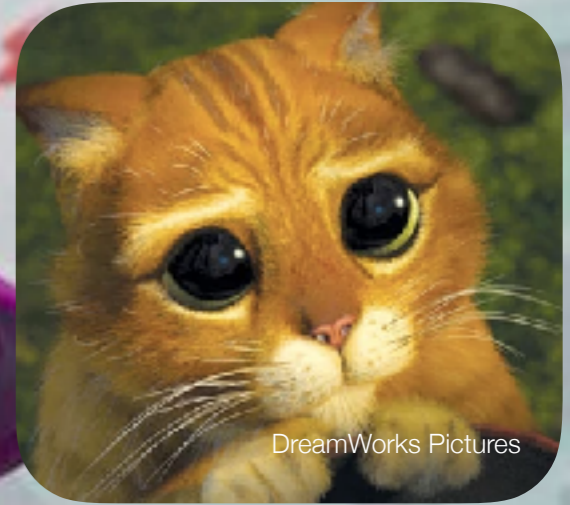


FRENCH BROWN





Warner Bros.



DreamWorks Pictures



Julie Parsons/Barcroft Media/Landov



reddit.com







Universal Pictures



countryhomelearningcenter.com



Walt Disney Pictures

engadget.com





**TEXTURE**





**ht**

*HT Plastic Electronic Co.,Ltd*









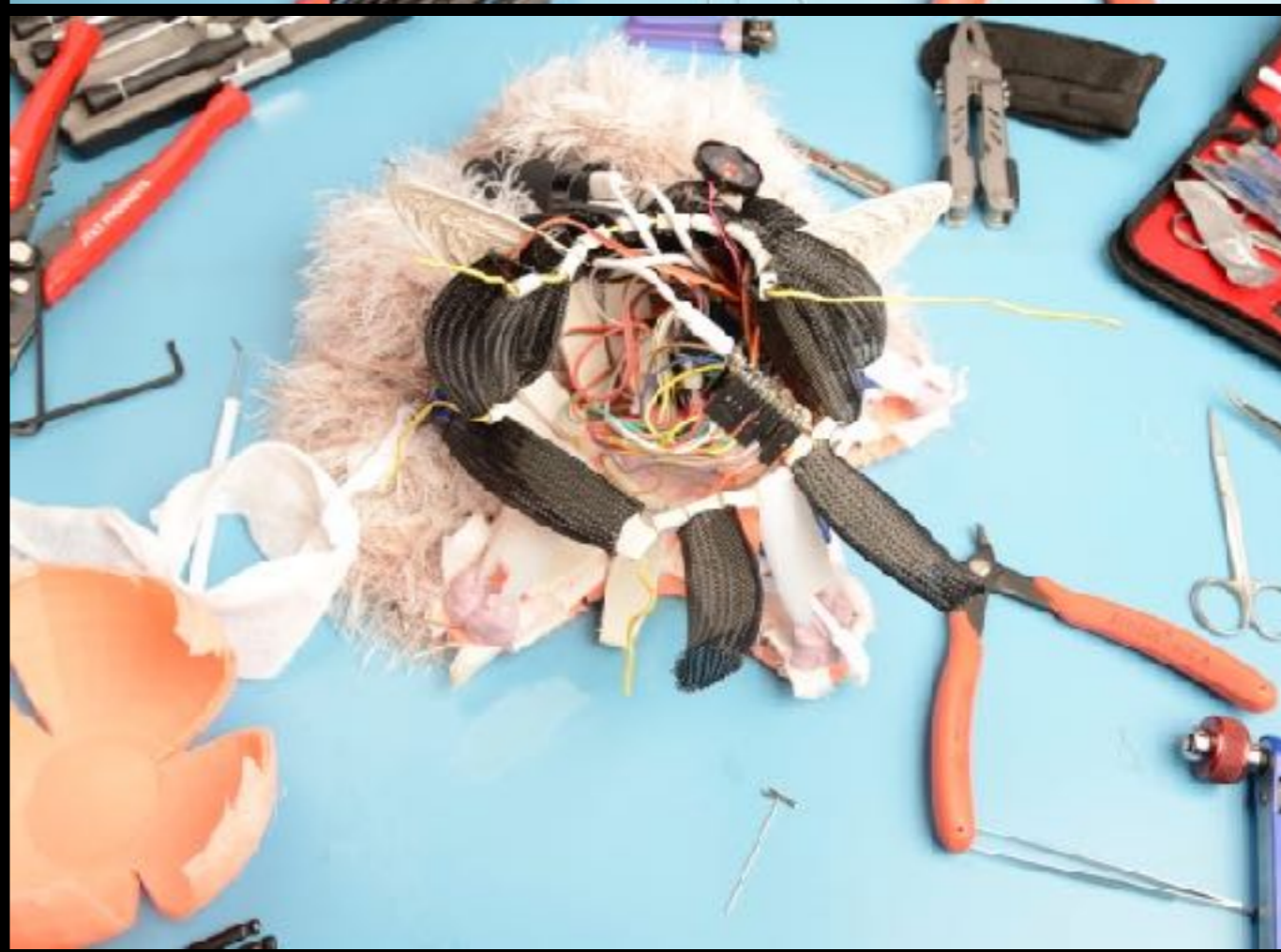








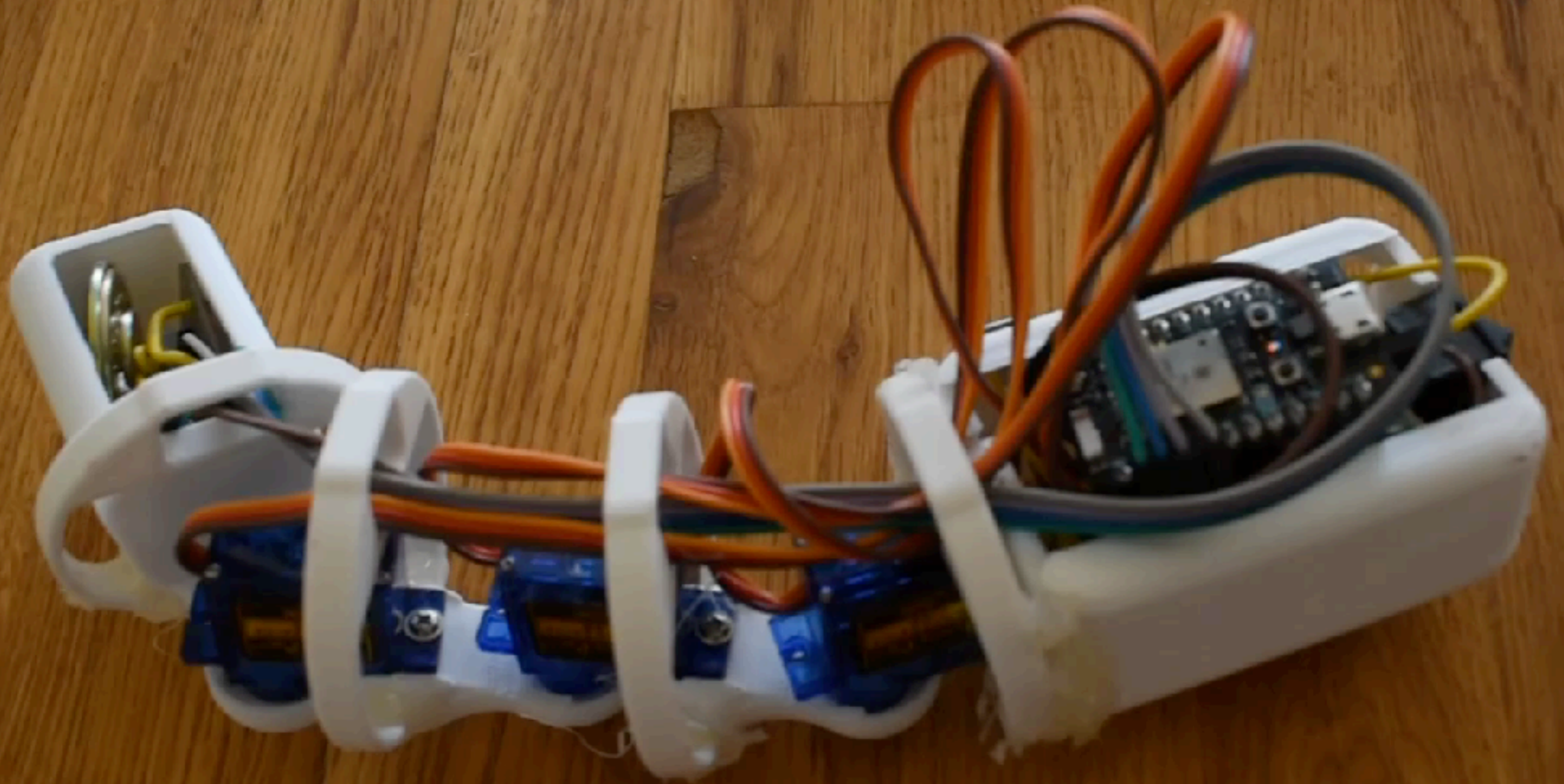




















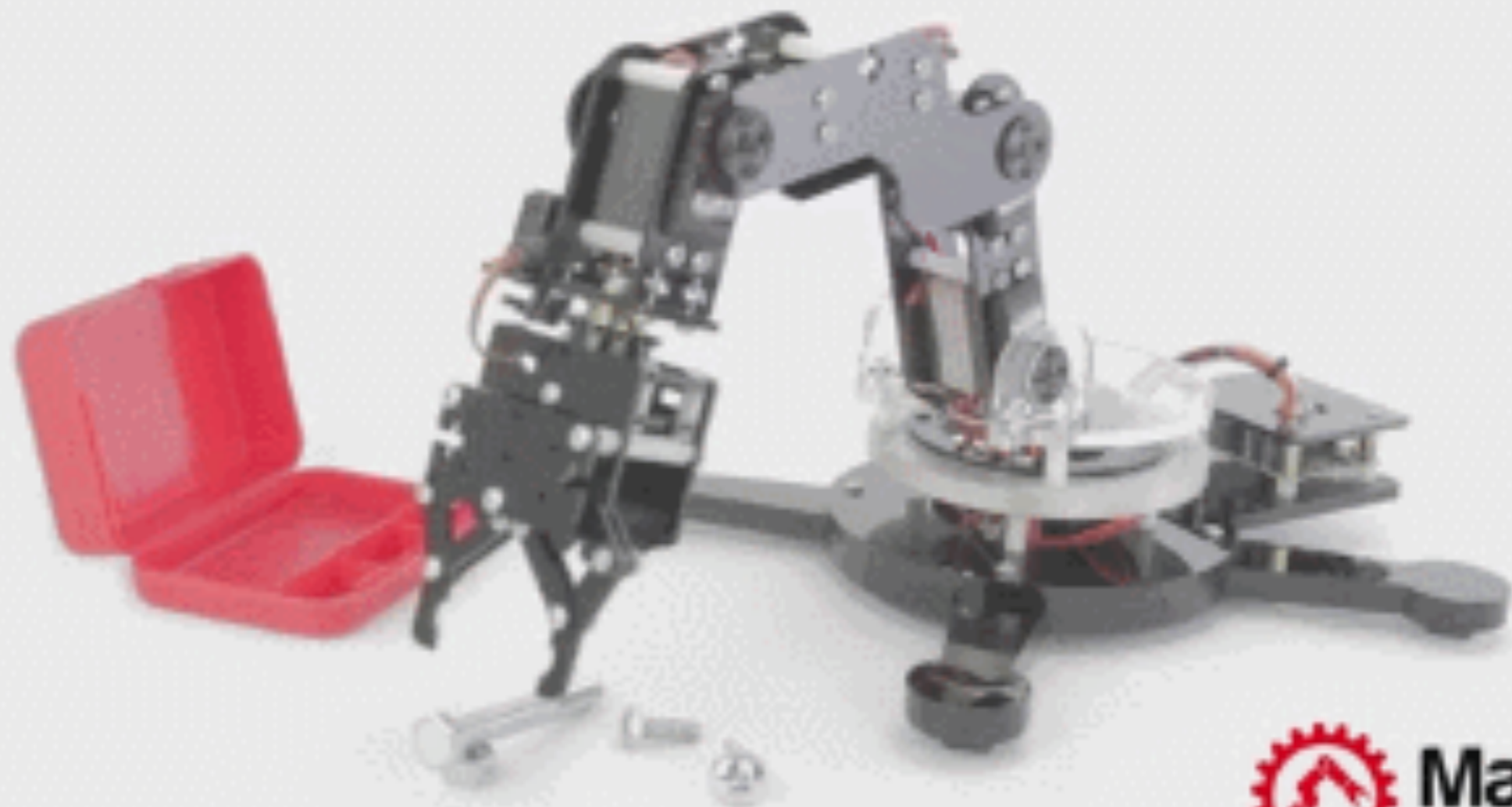
# MOTION

industrialjip (seriously look them up on youtube)









 **Maximo**  
ROBOT ARM





Industrial Perception, Inc.







# How to make life (like robots)

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the user



the object





the user

What is important about real \_\_\_\_?

How will a robot \_\_\_\_ be different?

the object



the user

What is important about real **pets**?

How will a robot **pet** be different?

the object







# What is important about real dogs?

Pets offer lifelike interaction by playing with humans and learning tricks

# How will a robot dog be different?

It will look more robotic and be easier to take care of





# What is important about real dogs?

Pets offer lifelike interaction by playing with humans and learning tricks

# How will a robot dog be different?

It will look more robotic and be easier to take care of

# Why did you build this?

Because business, now please go away.



# What is important about real dogs?

Pets offer lifelike interaction by playing with humans and learning tricks

**They provide companionship, as well as a bond that results from responsibility and mutual care**

(Dogs are work, and we know it, and that's good!)



# How will a robot dog be different?

~~It will look more robotic and be easier to take care of~~



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A robot dog is a totally new category of creature that provides therapeutic, lifelike references to real dogs while giving the human a feel-good bond through work (hw/sw upgrades, maintenance).



# How will a robot dog be different?

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A robot dog is a totally new category of creature that provides therapeutic, lifelike references to real dogs while giving the human a feel-good bond through work (hw/sw upgrades, maintenance).

This relationship is a mesh between the relationship we have with external entities (dogs, cats, friends) and hobby objects and objects of use (gardens, cars, weekend projects)



**The robot pets of the future are totally dope.**



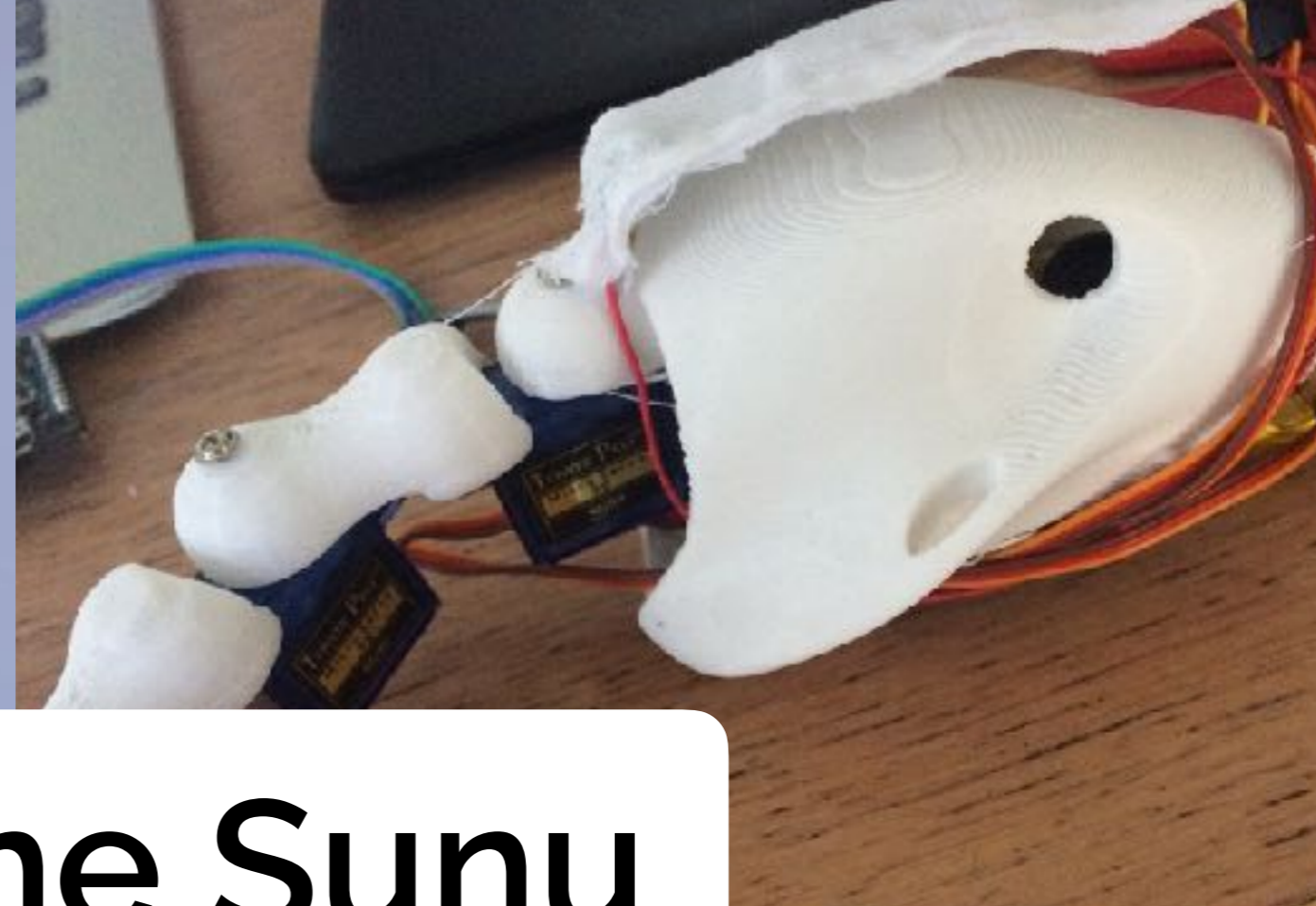
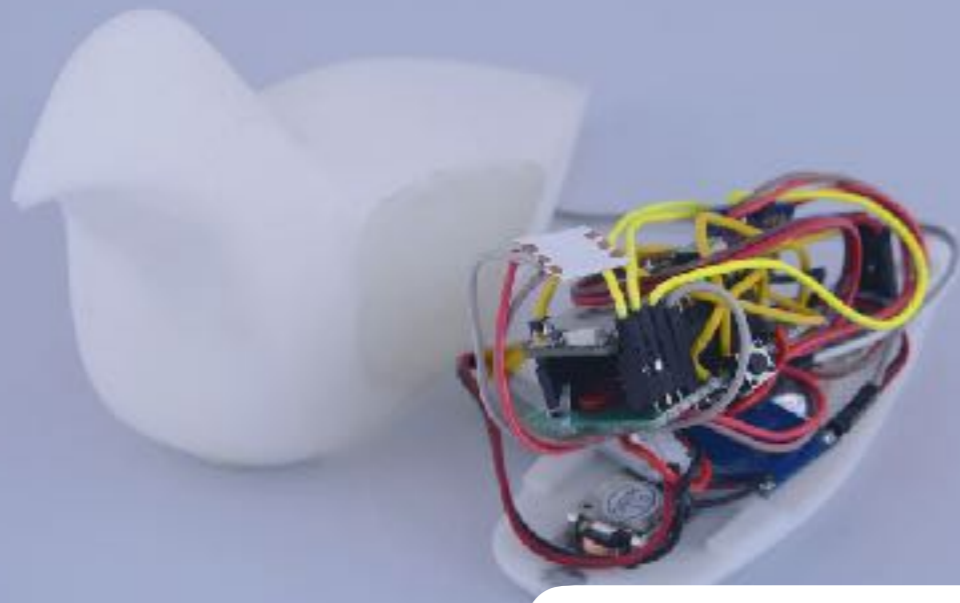
# IxD for Robot Pets

A modern robopet should be simple in function, useful, easy to upgrade, and self-contained.

A modern robopet should create a bond with the user that is based on function and maintenance and reflects the users' relationships with themselves, much like a car or a garden.

A modern robopet should use good design to imply and establish a picture of life that promotes bonding, rather than relying on inadequate technology to imitate the intelligence of a living creature.





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