## **Envision** | Transform | Thrive



Bionic Fusion Strand Design: Bionic Home

**User Experience** 

**Home Activity** 

## **Bionic UX Design with Fusion Strands**

Value Stream: Bionic home that has integrated sensors, bionic cognitive agents as life assistants, autonomous robotic assistants, connected intelligent devices and appliances.

User Journey(s)

cification

Strand hnology

Bionic

**User Experience**Integrated, Omnipresent Home Automation

- specific motivation or driver for why the user wants to engage in a UX interaction: As a homeowner I want my home to simplify my life, aid in all aspects of living and personal management so I have

- specific user experience objective of the user: I want to be able to interact with my home and its

systems in a holistic, integrated way where the intelligence of the home is omnipresent.

Bionic Home

User Experience

Home Entertainment

**User Experience** 

Assisted Living

**User Experience** 

Resource & Environment

**User Objective** 

User Expectation

User Task/Step/Action

- COLORADA

**User Motivation** 

- specific outcome, effect, result the user is seeking/desiring: I want life management functions to be assumed by the home and its robots and systems as delegated responsibilities, but approved by me through coordination and collaboration.

- specific action a user is attempting to accomplish: Task=provide security, Task=manage food preparation, resources, logistics, Task=provide assisted living and help with physical tasks/chores, Task=life management assistance and automation

## Bionic Experience Effect Type (Bionic UX Effects)

User Interface Modality
ionic Technology Taxonomy: Interface Technologies) (Bioni
System Functions Taxonomy: Interface Functions)

Bionic Interaction Technology Area (Bionic Technology Taxonomy: Interaction Technologies) (Bionic System Functions Taxonomy: Interaction Functions)

Bionic Intelligence Technology Area
onic Technology Taxonomy: Intelligence/Cognition Technologie
(Bionic System Functions Taxonomy: Intelligence Functions)

Bionic Integration Technology Area
(Bionic Technology Taxonomy: Integration Technologies)
(Bionic System Functions Taxonomy: Integration Functions)

Bionic Infrastructure Technology Area (Bionic Technology Taxonomy: Infrastructure) (Bionic System Function Taxonomy: Infrastructure)

Bionic Transformation Technology Area
(Bionic Technology Taxonomy: Transformation)
(Bionic System Function Taxonomy: Transformation)

## **Bionic Home Fusion Strand Narrative**

In this use case, we will explore how bionic effects, empowered by AI/ML capabilities and robotic technologies, can improve the capabilities and user experience of a bionic home. These technologies will enhance comfort, security, and overall living conditions. In the context of a bionic home, the integration of AI/ML, robotics, and physical technologies enhances daily living, resource management, and overall user experience. The bionic effects contribute to creating a more efficient, adaptive, and personalized living space, where residents can enjoy seamless automation and assistance in their daily routines and decision-making processes.



Bionic UX Effects

**Mentoring** 

Collaboration

Empathizing

Partial Task Automation

Task Acceleration

Immersion (UX/VR/AR)

Task
Augmentation

Task Elasticity & Scalability

> Task Autonomy

Task Precision

**Task Accuracy** 

Decision Support