

- **Title:** The Lifecraft
- **Status:** Master's Thesis
- **Architect:** Ali Baghizadeh (BZH)
- **Design Associate:** Aramdokht Jabbari (Aram JBR)
- **Thesis's name:** Providing a Paradigm of variable and interactive architectural design in the conditions of lack of habitability lands in the utopia in the future.
- **University:** Pars University of Architecture and Art
- **Supervisor:** Alireza Karimpour
- **School year:** Final year master's student
- **year:** 2023

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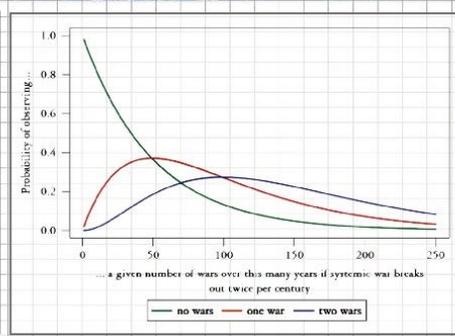
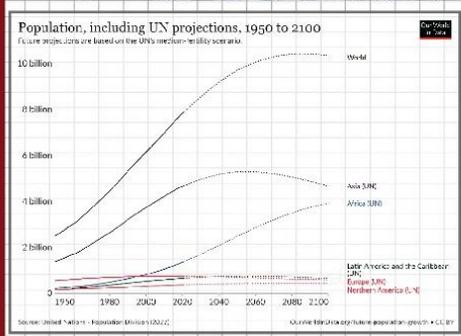
- **Concept:**

Human life on earth faces many challenges, the most important of which is the lack of habitable land on the earth. Because humans have significantly changed the form of the earth, humans due to the increase in population and other variable factors, each of which can be the cause or exacerbate the loss of many habitable spaces on the planet. As a result, they put themselves in a critical situation in the future, with these possibilities, if we are not prepared and do not act, humanity will probably lose its last settlements. Therefore, the designers in this project have tried to guarantee a new and eternal settlement for humanity, with a project called the Lifecraft, which is designed based on two main goals, a main and first goal is to create a new and insured settlement and habitat for humanity and its the second or secondary goal, which comes after the first goal, is to create, define and introduce a new lifestyle for future generations in the form of megastructures nicknamed bio-machines with the approach of improving the quality of life, to represent a Utopia in the default time frame of 100 years to 1000 years in the future as a proposed solution, Where the architectural space is not limited to a fixed solid, As today, the construction of buildings that move like living beings have created a new philosophy in the field of architecture, In this project, it is trying to turn architecture into the mainstream of living in its interior, so that the surrounding is changed space from a solid and fixed state to a variable and fluid one with the aim of being able to organize and change the space required by the user at any time, and it can cover the old and new- the actual and potential needs of people.

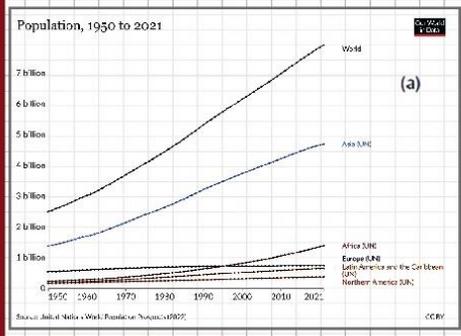
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**Project -7 Sheets + 9 Pic&Diagram(2<sup>nd</sup>-round)**





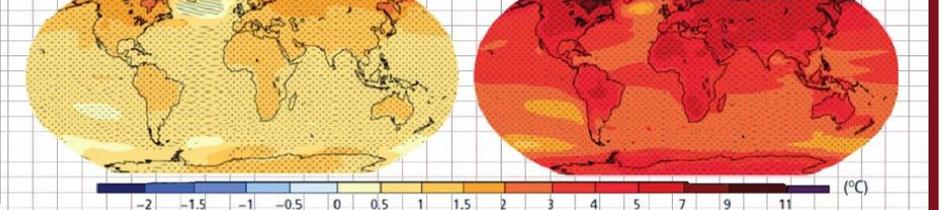
Human life on earth faces many challenges, the most important of which is the lack of habitable land on the earth. Because humans have significantly changed the form of the earth due to the increase in population, consumerism, and urban functions, as well as variable factors that are currently occurring and intensifying, and each of them can be one of the factors in the creation of critical conditions of the earth in the future. Like excessive unprincipled and necessary constructions, excessive population growth, destruction of the environment, it is also possible to mention the rise of sea level rise and even the occurrence of the world war III and nuclear wars that lead to the loss of many habitable spaces on the planet



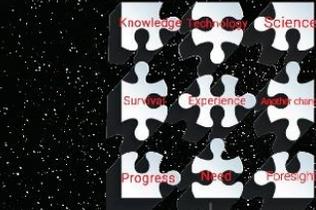
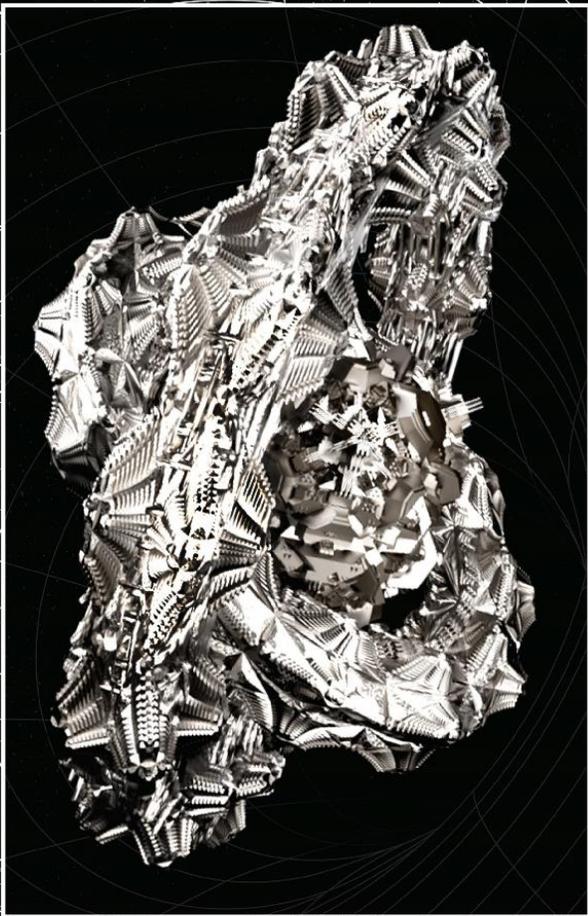
Predicting Future Wars based on observations

Prediction of climate change and global warming in the future

Forecast for 2070 loss of the habitat-suitable range (HSR) and (a) land cover change



The upcoming plan is a project of survival architecture to improve and evolve the life of humanity and introduce an alternative to prepare against the risk of the loss of the last habitable settlements. Therefore, along with preserving and guaranteeing a new eternal settlement for humanity, the definition and introduction of a new lifestyle for future years. In this regard, the 1000 years to the next 100 generations in the form of a utopia in the default time frame of designer intends to depict a utopia that not only can adapt to possible future conditions. Rather, it is preserve human society and provide an unlimited space with the maximum desirable quality in front of the mind of every human in a personalized way that demands for themselves, to ensure survival.



saving humanity

New Life Style

the evolution of humanity



the past

Limited World

Human Errors

Survive

Slow Evolution



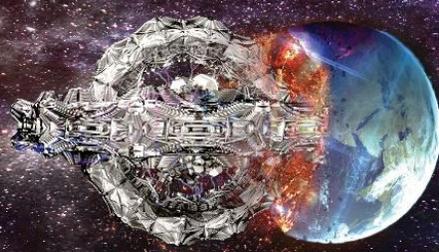
the future

Unlimited World

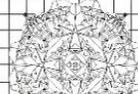
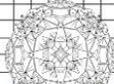
non-Repitition of Human Errors

Survive

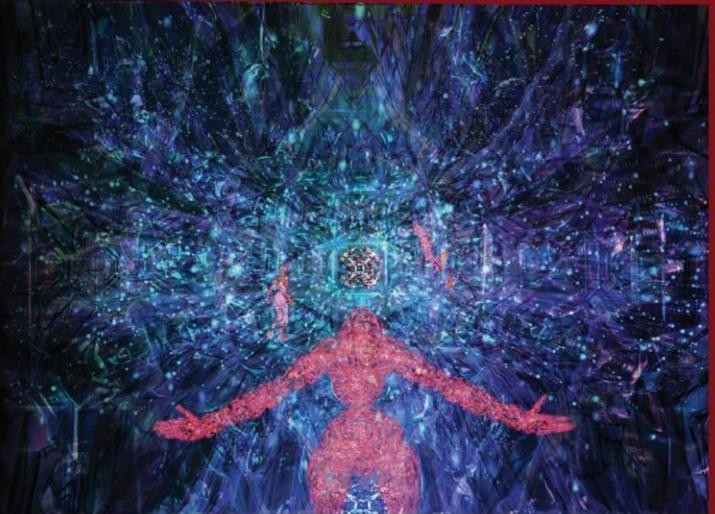
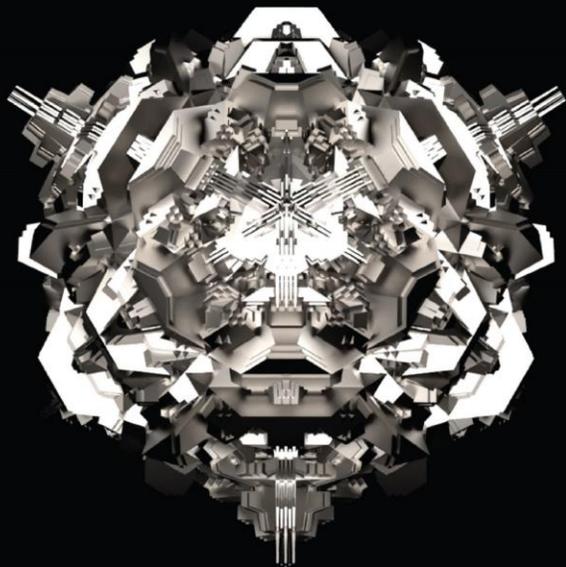
Progressive Evolution



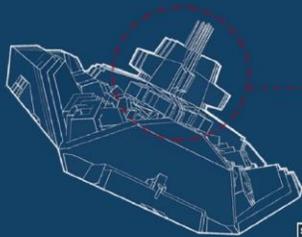
The minimum space for starting the lifecraft:  
The possibility of the scale of a village



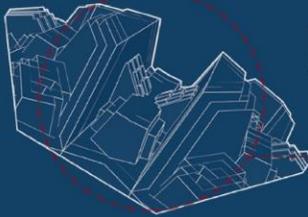
The minimum space for starting the lifecraft:  
The possibility of the scale of a village



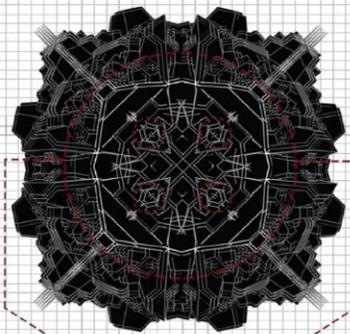
With the help of the operating system of the mother core and artificial intelligence, the human mind acts as another heart in this created world, and with the help of its imagination and thinking, which is considered primary raw data and the data created by other users as well as The data bank stored in the system (the history and experience of the predecessors) can transform its metaphysical world into its physical world and live in it



Smart receivers to receive the information and energy needed by the core system and communication with the other two parts of the Lifecraft



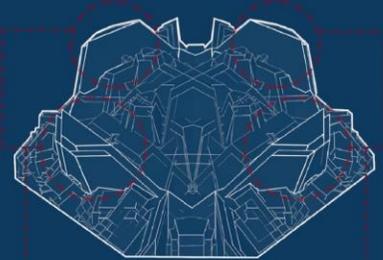
an oxygen generating device using electric energy and gas control inside the core



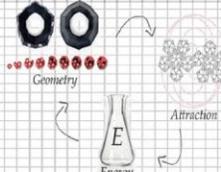
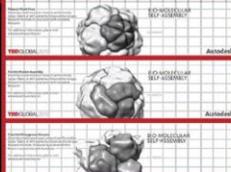
the operating system is made of flexible material, like the rest of the parts of the collection, which acts as the central part and the mother mind of other cloud systems of the collection and is responsible for the generation and analysis of potential and actual data for processing and creating the flow of life into a ready existence by users. The core of the mother, the brain and the heart of the lifecraft, which serves in human hands and alongside the human brain; a companion and support- Active and alive depends on the aliveness and activeness of the human mind within itself

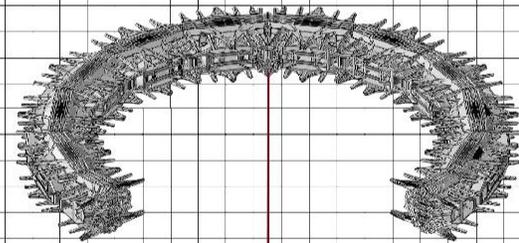
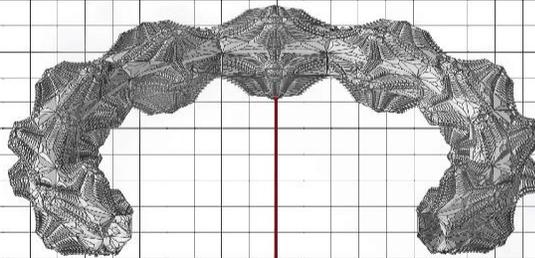
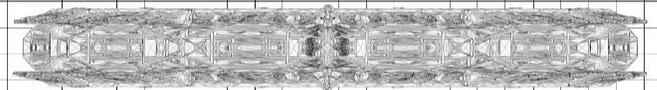
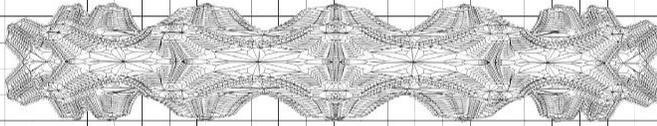
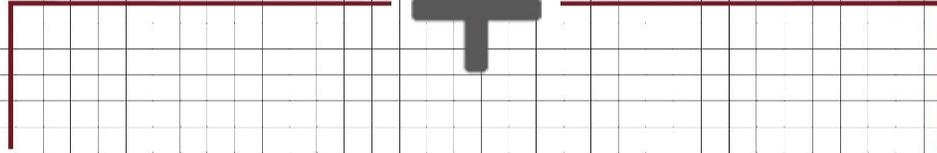
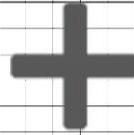
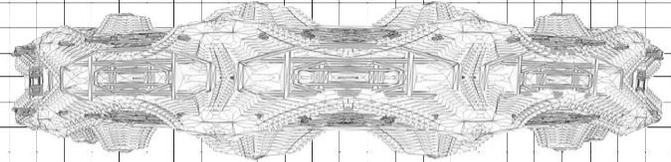
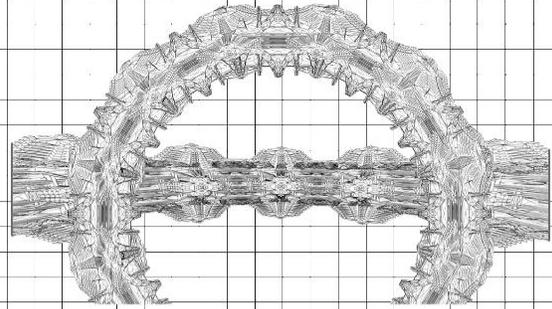
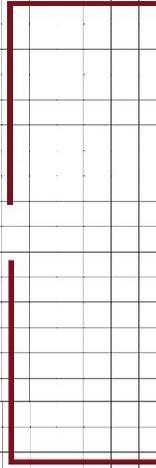
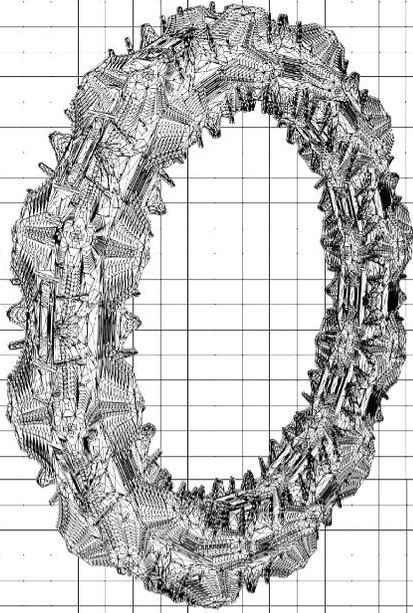
Repositories of memory and backup database

Today, according to the achievements of humanity, it is not far from the mind that for the future and the realization of the plan, the nature and material of the biomachines are completely flexible - growable - changing dimensions and sizes when needed, like "biomolecular self-assembly" which is the closest invented/discovered material for this idea



Bank of viruses and bank of bacteria are considered to support the biological dimensions of human life in the Lifecraft system to provide the necessary food materials and control the health and life of humans.





the cycle of the smart structure is responsible for the process of receiving and refining the existing gases in its external environment to convert it into primary and required fuel and produce plasma energy

Generating and energizing the electromagnetic current and preparing to create the primary gravity wave for the second megastructure of the bio machine

**Plasma technology**  
The fourth state of matter, which is considered the highest energy state of matter, is provided with the help of electrons, electromagnets and the fusion process, the required plasma

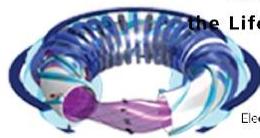
**Receiving Gases like:**  
**...N<sub>2</sub> Ar H<sub>2</sub> O<sub>2</sub>...**  
receiving and refining useful elements in the surrounding environment and introducing them into the controlled atmosphere of the system and the isolated environment inside the Lifecraft

**Plasma energy**  
Generating the necessary power to supply electricity influencing and helping to control the gravitational force in the biological machine-helping to control navigation system of the lifecraft

### Senior Megastructure-Propulsion

It is a smart magnetic dynamic megastructure, which is considered the main engine of the biological machine, which is responsible for 3 main tasks: 1. producing, receiving, combining and converting energy 2. mechanical movement and circulating movement cycles 3. maintaining and controlling the primary gravity required for Provides another parts.

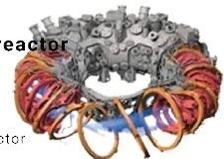
the Lifecraft's first ring arm is equipped with a magnetically enclosed fusion reactor whose most important function is to produce plasma

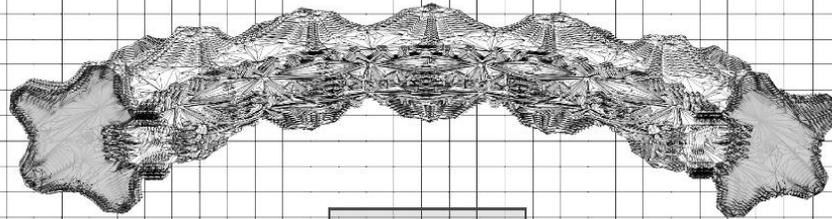


Electromagnetic Flow System

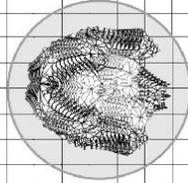
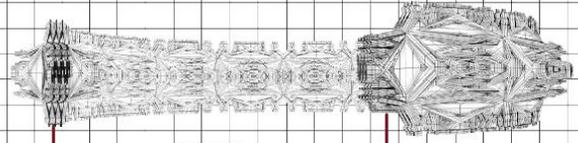
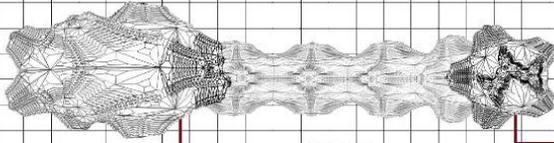


Fusion Reactor



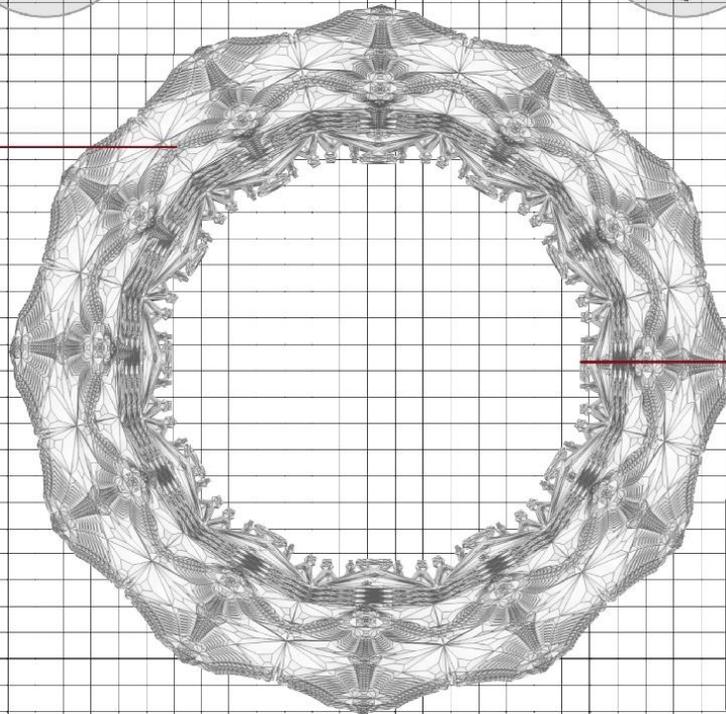


Two-part rings



Connection port and power transmission in the circuit of the first phase of the system

Distribution port and connection of electric currents in the second phase of the system

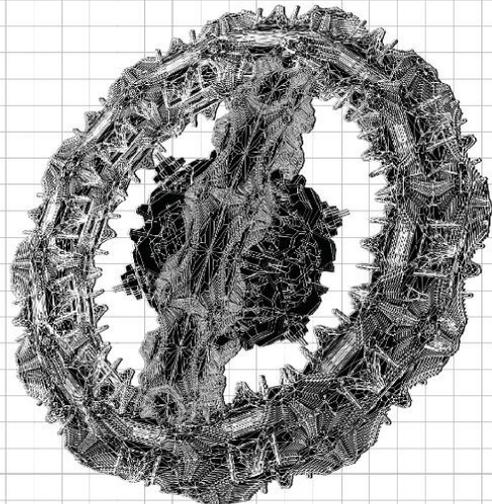


1 the first Smart machine ring  
Smart storage module-refinery

2 The Second Smart machine  
Smart sender and receiver module

- 1 The central bank of data storage in the entire network
- Save and convert forces for use
- 2 Control and sender of electromagnetic waves - wireless communication network
- Control and catalyst of electromagnetic waves...creating the required force and gravity

**Supervisor Megastructure-Operator** : The most important task of the arm of the second ring of the Supervisor machine : Refinement, control of input and output of plasma energy, control and rotation of electromagnetic around the life core of the Lifecraft, which simulates the geomagnetic bipolarity of the current existence, so that with the help of providing an attraction under the control of the users, they can be in the world in front of them, i.e. The inner world of the core has the possibility of breaking the movement limitation in the physical dimension of space. Also, in the part of the reservoirs, which acts as a server room, helps in transferring data to the central core and creates a temporary cloud space of data to use electromagnetic waves to prevent data explosion and to always circulate in the system.



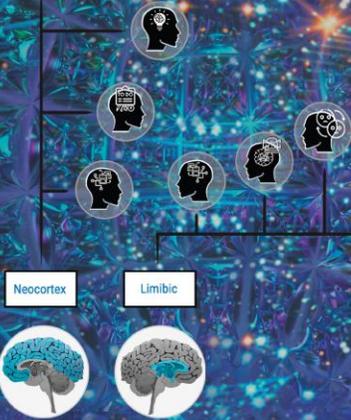
self-conscious

Physics Mind Metaphysics

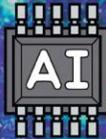
Physics Mind Metaphysics

Metaphysics Mind Physics

In this project, the designer tries to place the world of visualization and fantasy born from our mind as the beginning of the metaphysical world of our existence, and this time in a new paper of the formation of a new lifestyle for humanity, self create our own the Forms world as the ideal of existence and live in it; as it is stated like Plato's Form world, humans are bound by the shadows imposed on them from another unknown world., in this project, humans, in addition to refusing to see these shadows, are not even looking for an unknown source of light anymore, but they have put their own existence as the source of light and they will see the light of the lamp in their brain, in this complex and amazing system(the human brain and in the depth of it the human mind), as a result of this design based on Descartes's existence thinking. "I think, therefore I am", has seen this existence in the existence of every person's life



Scan



Catalyst

Production



Data Bank (Actual)



Data (Potential)



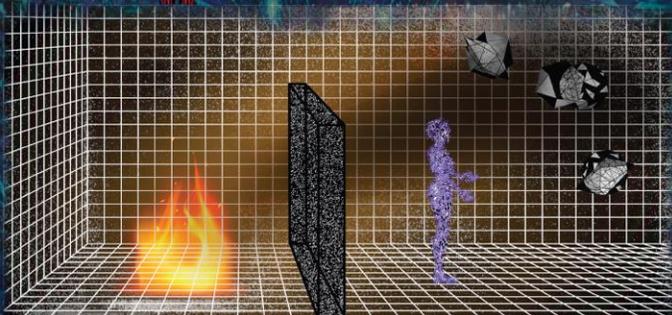
Nerve



Create



Imaginations Memories Experience History



Man is in search of truth and reality and is far from the totality that is behind him and in front of him



Man is the focal point of his universe and the truth of the world and beyond his world, with his complete knowledge and understanding of the world in front of him



In the core of the LifeCraft, where the flow of life flows, humans no longer repeat their past mistakes in occupying space unnecessarily and avoid its destructive effects. So that, each person, inspired by the proportions of Da Vinci's Vitruvian man occupy the physical space of the core borrowed from the old world, as much as the axial size of their existing physical dimensions and size in space, which leads to equality and equality in access and ownership in space, and have their physical life with access to the infinite world ready to exist from the mind with the possibility of being occupied by the presence of that person in any specific point of the space, and after the person's absence and movement from that point again, the coordinates, like other free coordinates of the core space, can be accessed and used purely and stably for everyone, also, according to the behavior of the material, it was considered for the core of the bi-machine and the possibility of growing mega machines if space is needed in connection with the increase of the human population in the new artificial sphere, it can be said that we are facing a space with infinite behavior

Storage particles inside the system-Fluid in the entire set for use as needed

It is reserved for each person personally, each person has it like a garment

Particles are used by users to objectify the life created by the person and form it in the leading environment

Compressed gravity Personal gravity



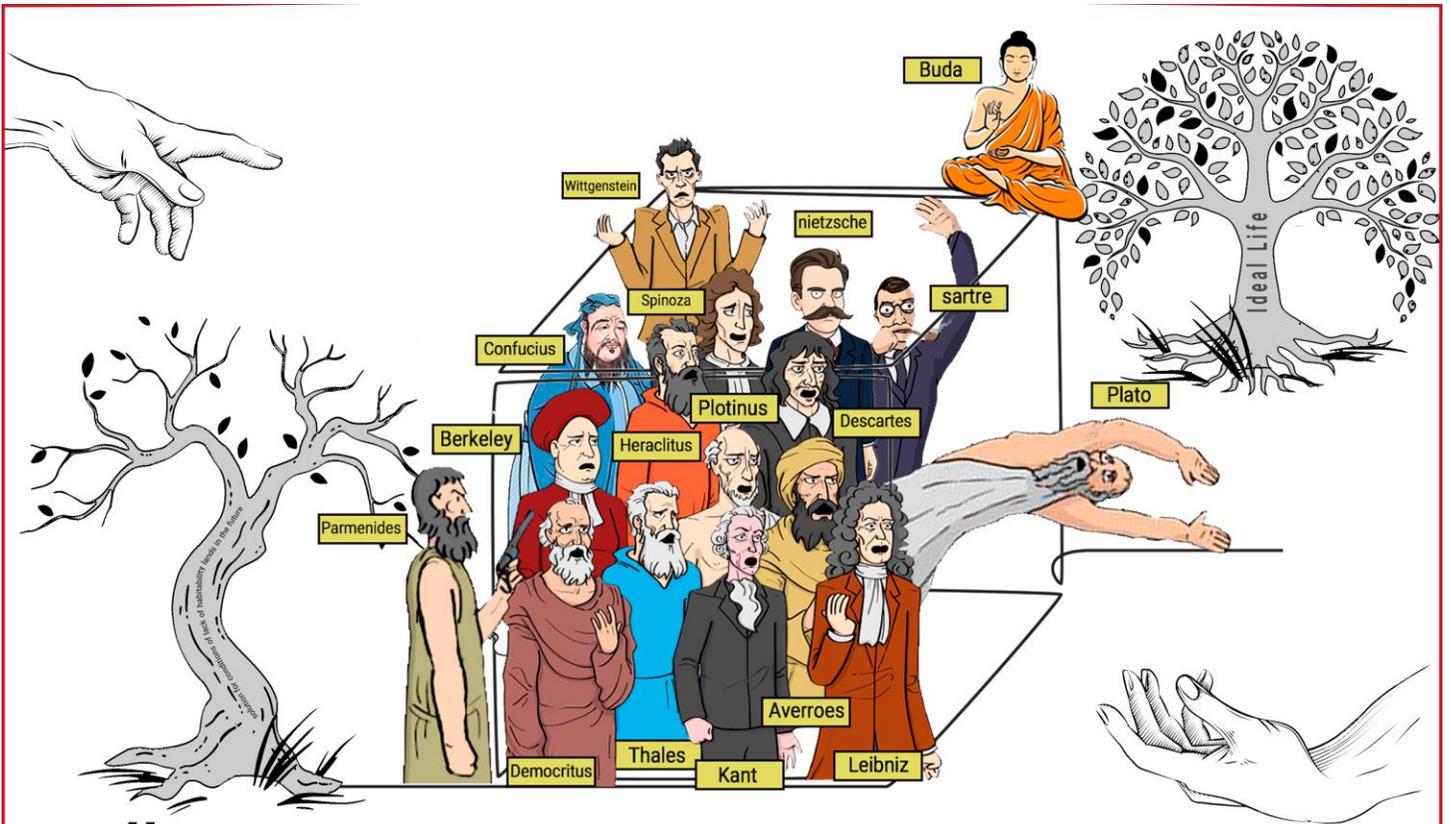
## Life Particles

important characteristics will be needed 2 For the implementation of this idea, a substance that has:

1. Can become soft and hard when needed (flexible)
2. It has the ability to form and can be made into any shape

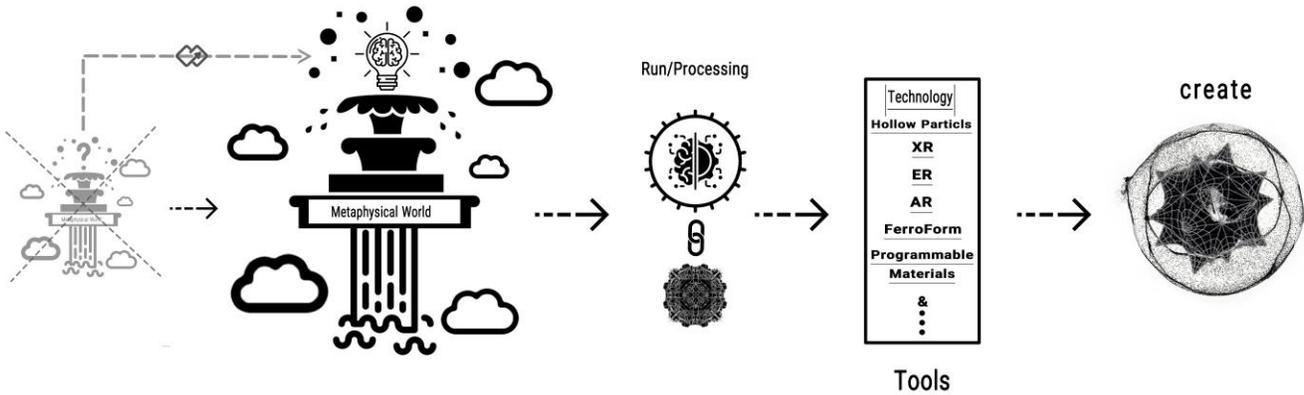
In this project, a material with special characteristics is considered, which today has been fulfilled to some extent with scientific advances. Today, there are many definitions such as Hollow Particle Exciter - Digital Particles - materials such as Ferroform and Ferrofluids, which can be considered elements of the interior space





# 1 # Diagram — Design thinking approach

**Abstract:** Designers, in order to reach their ideal space and design the interior of Lifecraft's Mother Core, create a primary thinking structure so that they can introduce and define a new lifestyle in a certain path. Therefore, Plato's Theory of Forms has been considered to have the structure of the metaphysical world and the initial introduction of all the literature of other worlds as the world of imagination. Furthermore, assuming that the allegory of Plato's Cave is considered one of the possible views on the existence of the world and the background and the primary spark of the view of this world(sheet.6), they have placed it as an introduction to express their own theory and own perspective about the ideal space.



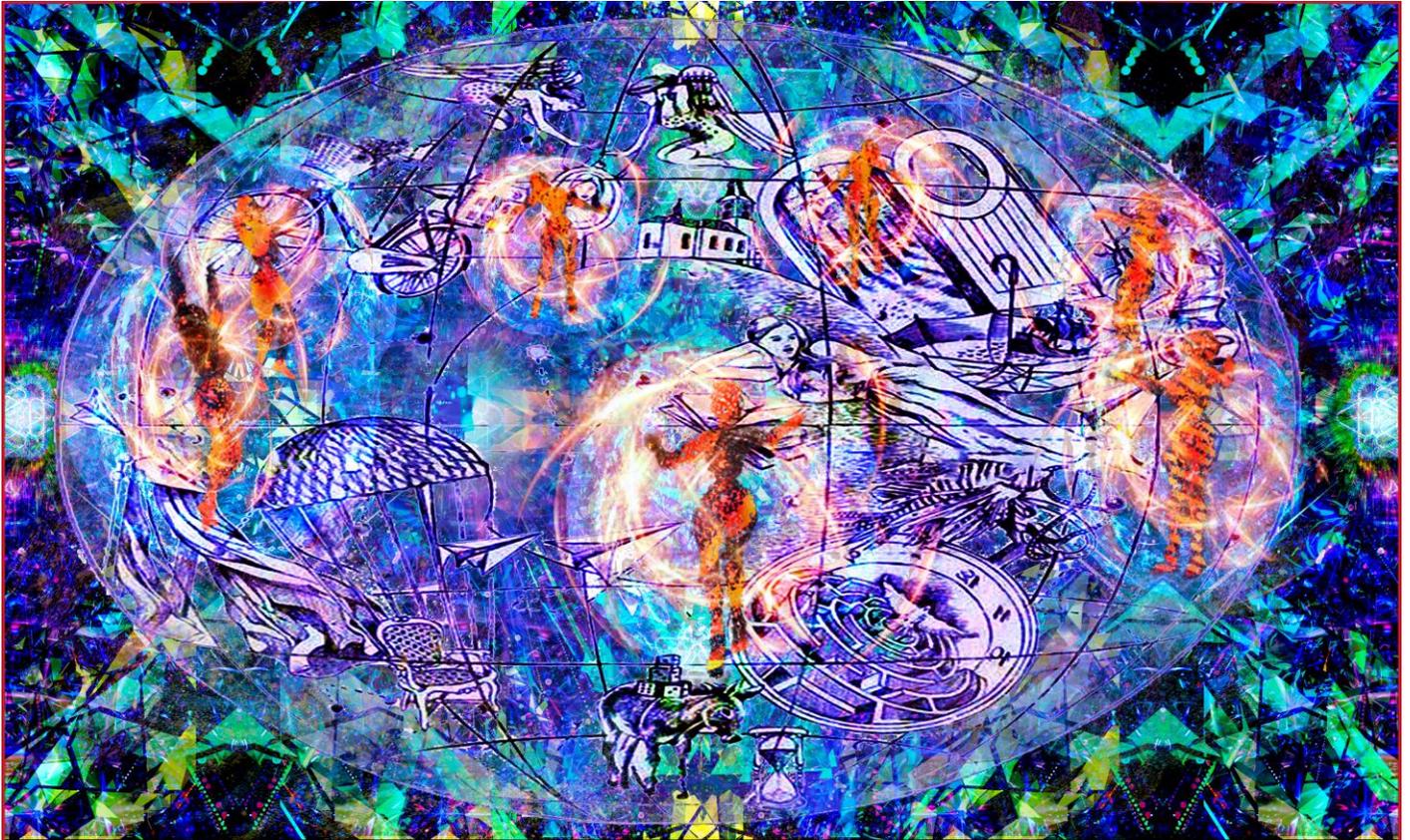
## 2 # Diagram — the place of the mind in the newly created world

**Abstract:** In this project, the designers try to make the world of visualization and fantasy born from our minds the beginning of the metaphysical world of our real world, and This time, in the new lifestyle for humanity, let us create our own Form world, as the ideal of our Space (our world) and live in it, and together form our own utopia, without being dependent on the physical decaying world that is captive to the unknown metaphysical world .



### 3 # Diagram — Defining the relationship between the users and internal space of Project

**Abstract:** Instead of receiving unfiltered data from the environment like the old humans, then processing it in the brain and then analyzing it, in the new life we enter the specified data and the selected from the brain into the environment and we create an environment for living that is approved by us(sheet.6-7).

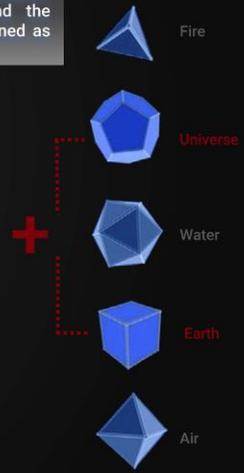
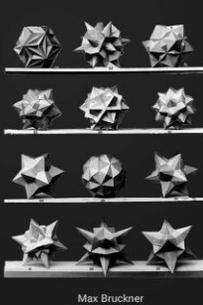
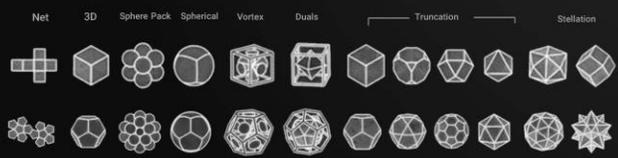


## 4 # Diagram — Ideal space in the ideal city of the future(utopian space)

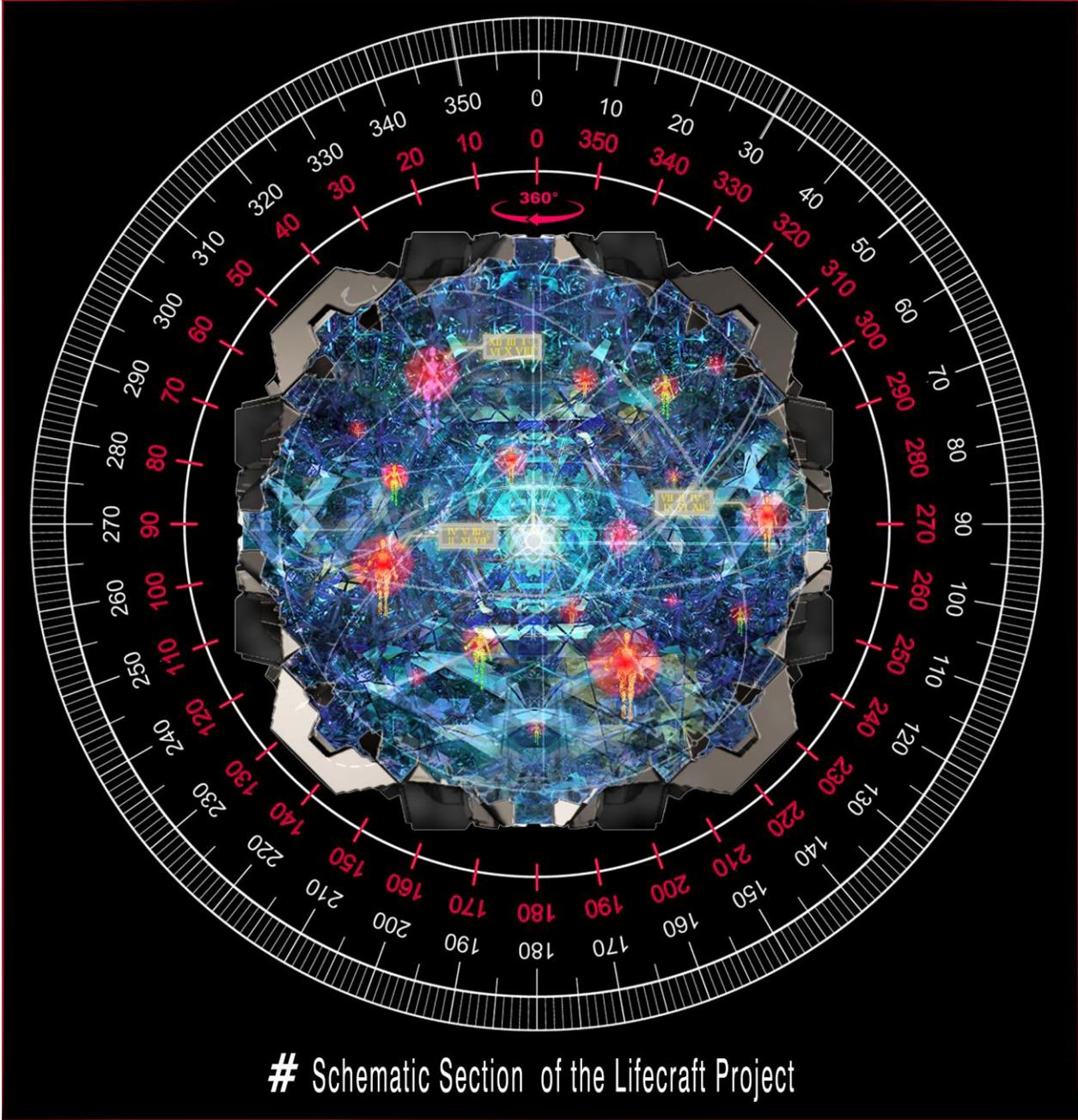
**Abstract:** Users (the living people) can create common and public spaces and create a community by sharing data created by other people, or in other words, by sharing their lives together, as if they have created their own urban pattern language. According to Christopher Alexander, it is as if they all have a single mind, and in this way, our future ideal city (utopia) consists of the ideal of spaces created by people(sheet.7).



The core of the bio machines(the Lifecraft), nicknamed the mother core, like a planet, preserves human in itself, in design this core, in addition to paying attention to the general form of the planet of the galaxy, in order to achieve the best form for the performance and goals of the project from the volumes and composition of Platonic solids, It is inspired, such as the **Hexaehedron** or the Cube, which Plato considers to represent the earth and is also considered one of the basic geometries, and also sign of the rebirth of existence as the creation of a new world that has been seen for form, and also It is inspired by the Platonic volume of the **Dodecahedron**, which represents the Aether, the Universe beyond the boundaries of the Earth, a volume that is also mentioned as an element to arrangement the Paradise.

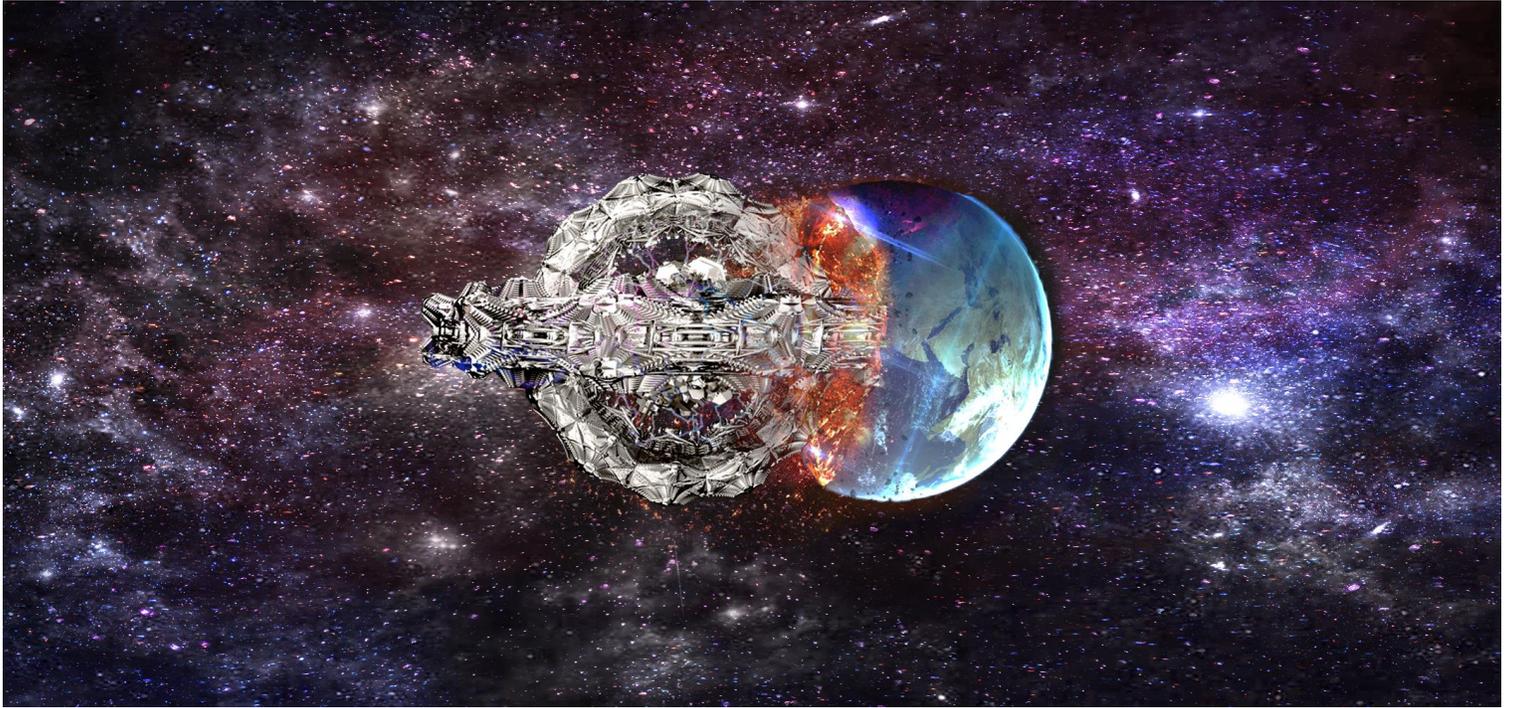


# the mother core form design (concept of form )





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-8/9-



-9/9-



**YouTube thumbnail**

▪ **Biography:**

Two Iranian designers & artists, Ali Baghizadeh (BZH), born in May 1996 and Aramdokht Jabbari (Aram JBR), born in October 1995, have started architecture in 2014 at WTIAU (Azad University-West Tehran Branch) and They have started working together as a group from the beginning of being a student and They have designed many projects and in 2018, They have completed their bachelor's degree in architecture with the title of distinguished students and in the same year, They started their professional work together with the establishment of OWRON Studio with the slogan "Our work represents our name".

In 2019, They continued their master's studies at Pars University of Architecture and Art and during their student days, They have worked in several architecture offices to gain experience, then in OWRON Studio, They have won several titles by participating in many international competitions.

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