DESIGNNOBIS
CREATIVITY IS OUR BUSINESS

Designnobis is an award winning design consultancy with a visionary approach on product design. Founded in 2006, we have ranked among top industrial design firms by achieving 45 design awards only through 5 years.

Specializing in product development and brand identity, we help our clients to differentiate in market by creating products and services with strategic value. We handle design services from research and concept development phase to prototyping and production process.

Acting upon the creativity and interdisciplinary teamwork that product development process requires, we aim to become a sustainable innovation center. Our skills include product design, space design, strategy development, brand identity, prototyping and graphic design.

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VILLA SERA

There's an increasing awareness on the environmental problems facing our planet and eventually our everyday lives. The individual efforts to reduce the carbon footprint to conserve the resources may seem ineffective to many people, but the minor changes we make in our micro-cosm is a valuable contribution to the macro-cosm of our planet as a whole.

Villa Sera aims to set up a valuable micro-cosm using the natural sources effectively and develop an understanding that the individual efforts have a valuable impact on our planet earth.

Villa Sera uses solar energy with photovoltaics to produce electricity and power tube solar collectors to heat water. Ground source heat pump is used for low temperature floor heating system.

The pond in the yard is for breaking down grey water via photosynthesis to water the plants. Rainwater is collected from the roofs via rain harvester system. The water consumption is reduced by using water efficient WCs & composting toilets, aerated low flow spray taps and shower heads. Low energy appliances, fridges, cookers, compact fluorescent light bulbs are used.

The Greenhouse in the right side of the house is a Sunspace designed to gain passive solar energy and also as a high tech greenhouse for food production. The

distribution of heat from the sunspace to the house is accomplished through ceiling and floor level vents, windows, doors and fans. There are shutters for ventilation on the roof of the green house under the photovoltaic panels to regulate the heat in the greenhouse. By the perfect conditions provided, the food production in high tech greenhouse increases the bio diversity allowing to plant trees and plants. There's also another green house located on the garage providing more space for local food production.

The flexible floor plans of villa sera give a provision for high quality of space, beauty and light with inbuilt flexibility to adapt to changing user requirements.

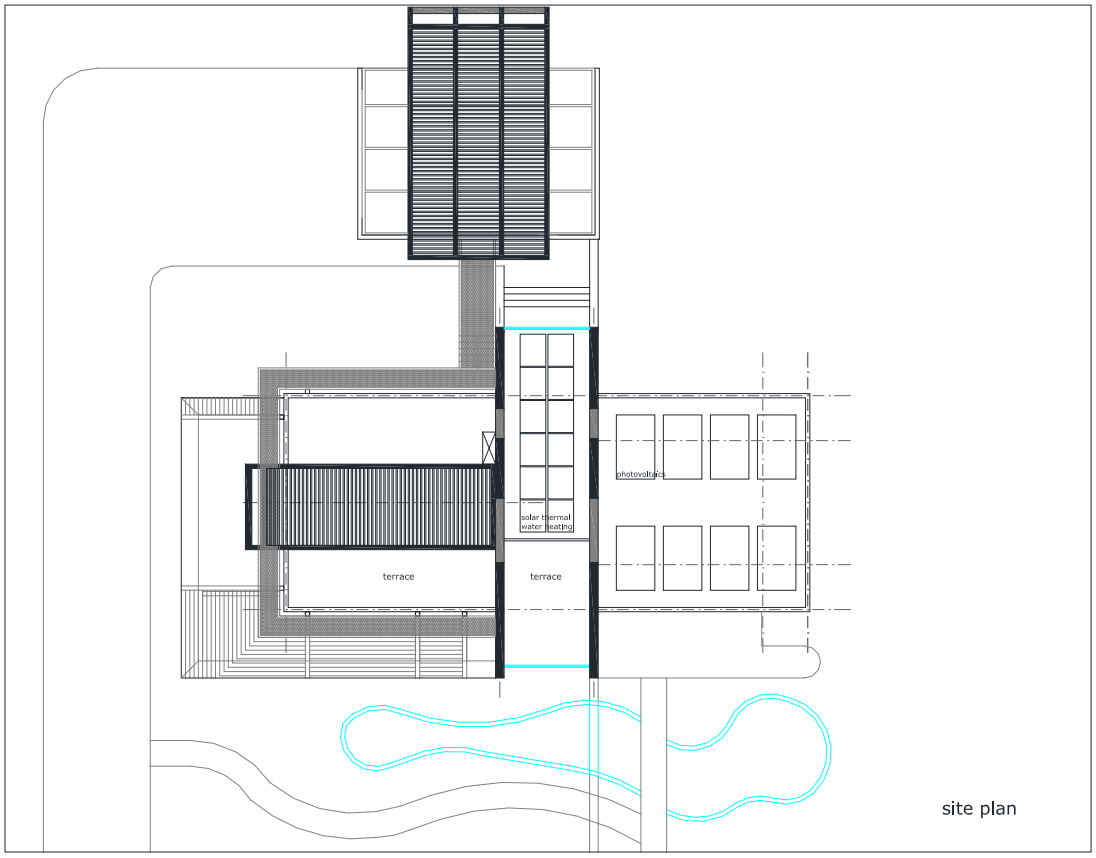
The entrance is spacious with the 2 storey high ceiling and luminous by the light through the semi transparent solar panel facade. The middle part consists of staircase, elevator, powder rooms, study and hobby rooms. It has concrete walls constituting the core structural system. The right and left masses have steel structure integrated with the concrete core.

The right part is a greenhouse serving also as a sunspace. The family room and the library are located in this part of the house benefiting the sunspace conditions and also the green foliage environment. The family room is separated from the greenhouse by brick walls with a window strip. There's a surrounding metal mesh platform allowing the air circulation. The library-study room on the 2nd floor is separated from the greenhouse by sliding glass doors allowing to maintain a flexible green environment combined with the metal mesh platform surrounding it. The ground floor of the greenhouse part is directly on the ground allowing the trees to grow their roots deep enough. This allows to increases the bio diversity. On the roof there are photovoltaics for energy production. Batteries are located on the basement.

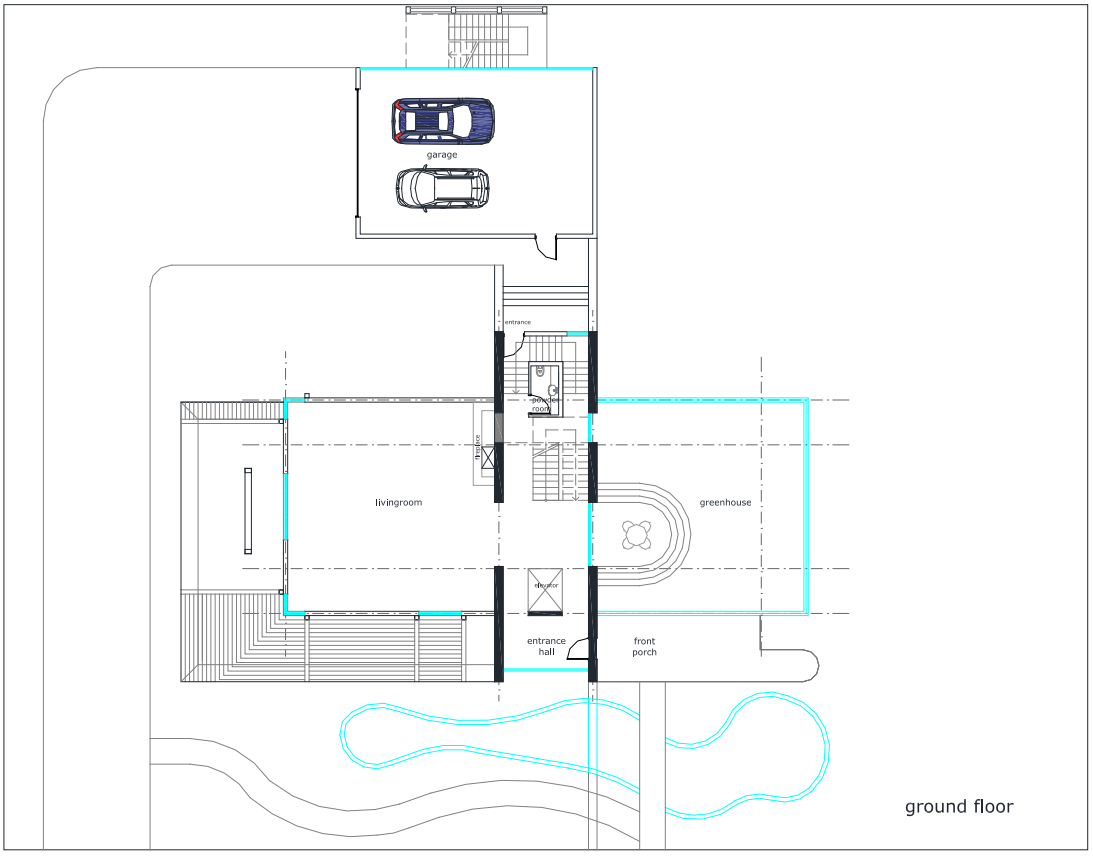
The left part has the living room on the ground floor, the kitchen and a terrace on the second floor and on the third floor there are bedrooms and bathrooms. The living room allows making various arrangements you may use it as a whole big space or form various spaces by separators. The basement is not just a place for utility by its secret garden ensuring the daylight in the multipurpose room. There's laundry, bathroom, heating system and multipurpose rooms are in the basement.

The garage at the back yard is connected to the main building via a path to the back entrance door and a bridge connecting the kitchen to the greenhouse on top of the garage where fresh local food is produced.

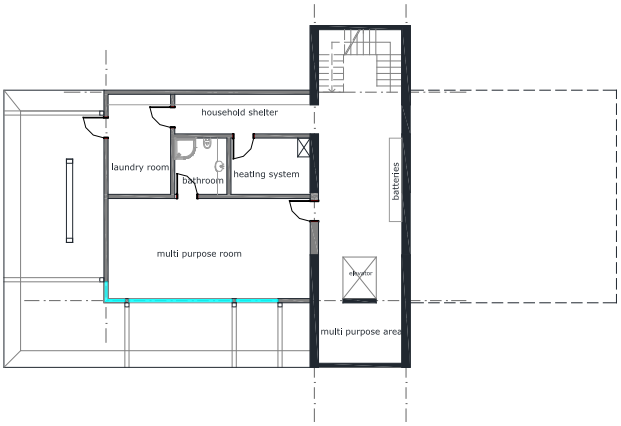
The front porch can be connected with the greenhouse when the glass panels are slide opened. The bridge over the pond connects the house to the street. The pond serves as grey water filtering system, the filtered water is used for watering the plants.



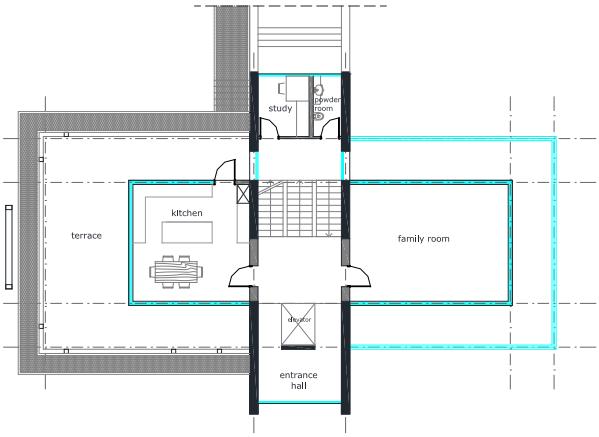
site plan



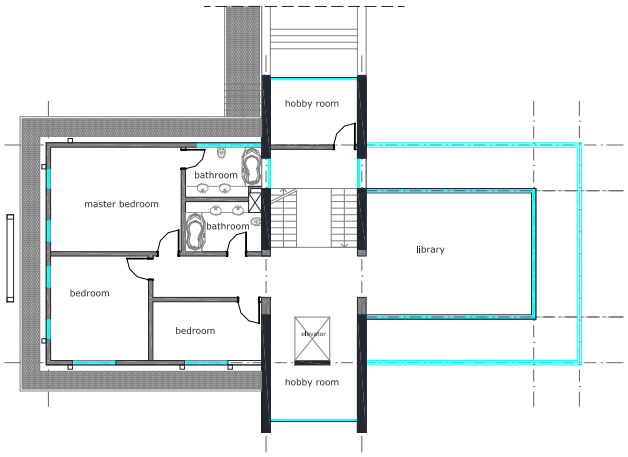
ground floor



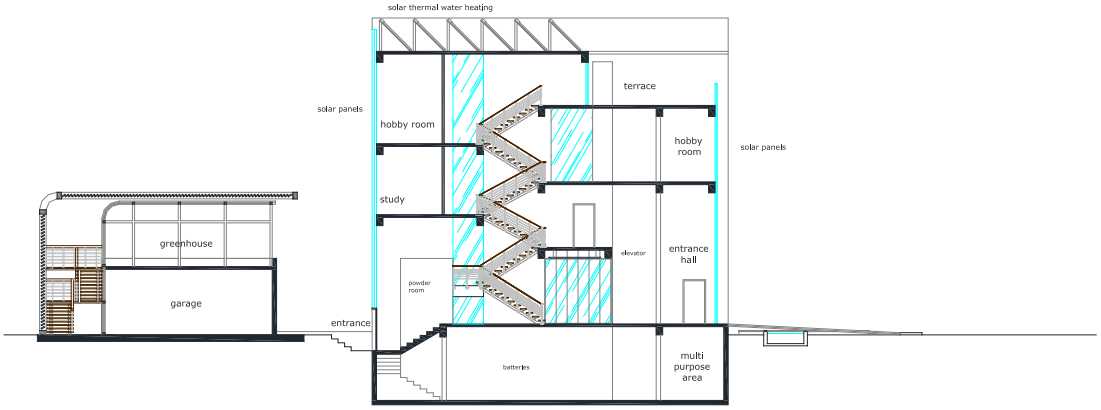
basement



1st floor



2nd floor



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