

# NILEPRENEUR: DESIGN HOUSE

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DESIGN HOUSE MANAGER

# AGENDA

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1. What is Design House?
2. Services Offered by Design House
3. Case Studies
4. Target Audience

# What is Design House?

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Design House is an entity that supports Startups and SMEs in translating their product requirements into reality by following a rigorous and tested SOP for product development and reverse engineering.

It is aimed at enabling/energizing the manufacturing and product design environment in Egypt through several funded services as part of Nilepreneur Initiative and supported by Nile University.

# Design House Services

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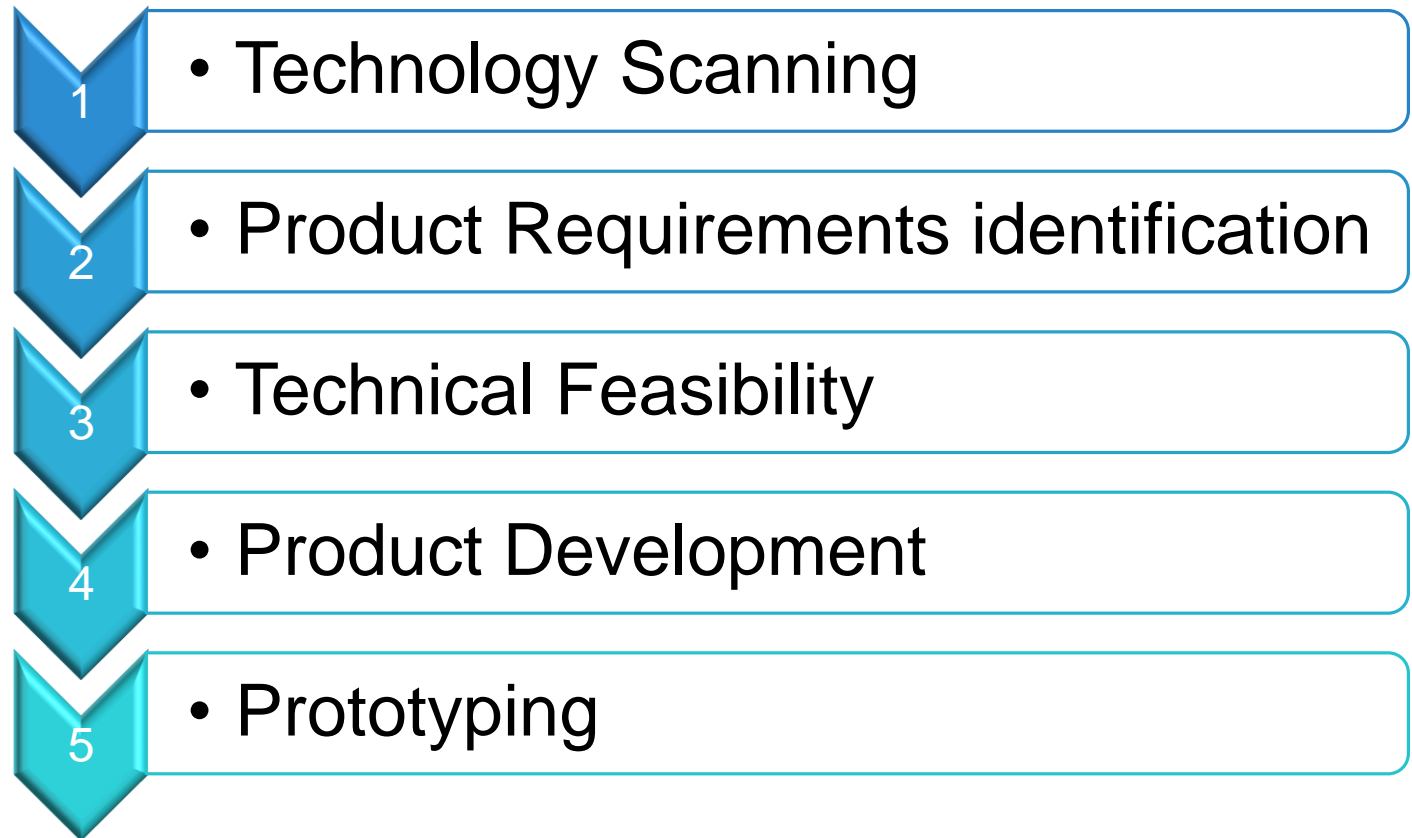
Support startups from ideation to MVP

Provide technical training to Entrepreneurs

Cooperate with SMEs in growing their products

# How we support startups?

We work with entrepreneurs in assessing their ideas and improving them then going through technical feasibility and developing their products, its structure, aesthetic design or mechatronic system till we have a working prototype with a detailed manufacturing process as well.



# Focus training areas by Design House

Design house provides several training in technical areas supporting the Egyptian industry and specifically the Engineering industries



New product development



Reverse Engineering



Development Tools



Vocational training

# Training offered by design house

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## Developed

- Siemens NX CAD Software Training
- Solid works CAD Software Training
- New product development cycle
- Innovation and benchmarking tools
- Industrial Design for products
- Engineering Material Selection

## Being Developed

- Reverse Engineering using Faro Design Scan Arm
- Prototyping techniques and tools
- FEM Analysis and Simulation software

## Cooperation

- Pneumatics, Hydraulics, CNC, Robotics and PLC systems by FACT Center
- Electronics Design including circuits design, PCB design, embedded by Innovation Hub
- Vocational Training through multinational companies

# Support Growth of SMEs

Design house provides several services that are tailored to support growth of small to medium companies other than tools provided before.



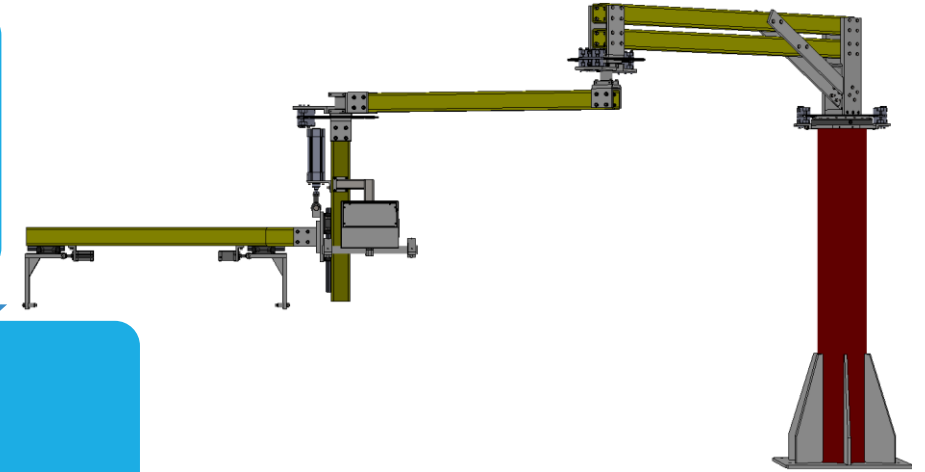


# Designing production equipment

Obtain functional requirements and resources on equipment needed

Determine budget requirement and project timeline

Develop the Equipment in close cooperation with process requirement



# Helping SMEs with export

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## Analysis

- Analysis of Product requirements.
- How to improve the product.
- How to make it export friendly.

## Standardization

- Support SMEs with standardization by working with local quality institutes.
- Cooperating with the company in improving their product to comply with standards.

## Matchmaking

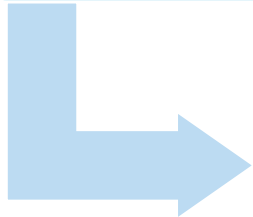
- Support Matchmaking activities of SMEs with governmental entities

# design/improve product portfolio

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Step 1

- Obtain Functional requirements or working sample to improve



Step 2

- Develop Aesthetic design of product in case of customer facing products



Step 3

- Conduct detailed design on product and prototyping

# Design House Facilities

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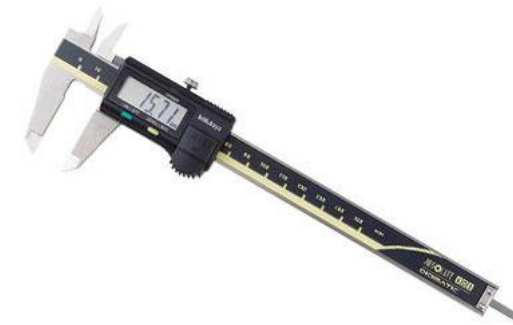
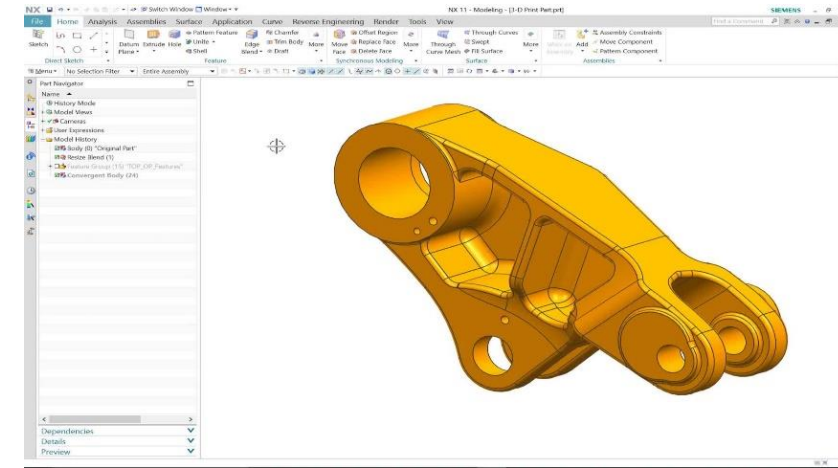
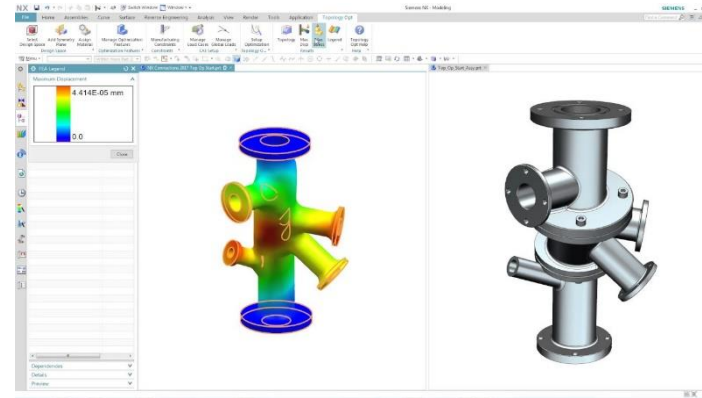
Design and Reverse Engineering Tools

Prototyping Tools and Equipment

Nile University Labs and Facilities

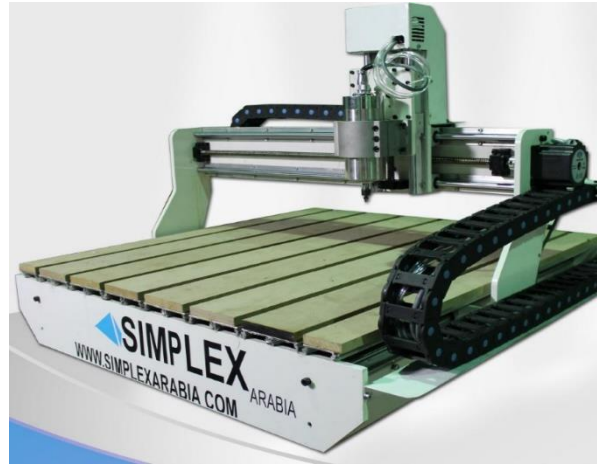
# Design and Reverse Engineering Tools

We have chosen Siemens NX a world class design software for our product development services as well as 3D Scanner from Faro to support us in providing best support possible.



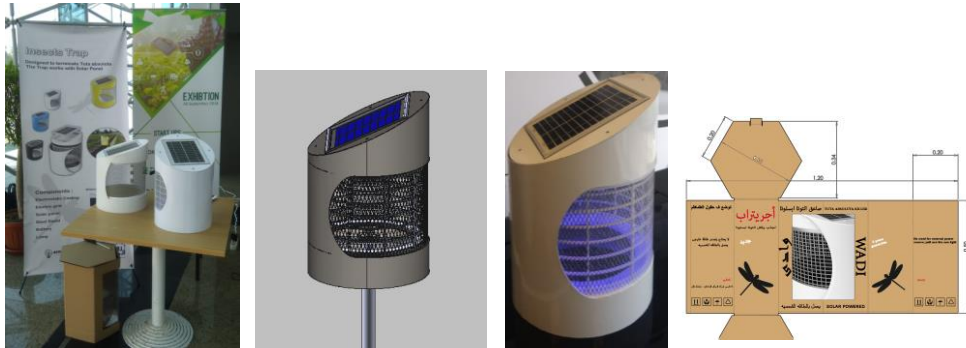
# Prototyping Lab and Workshop

We have a prototyping and benchmarking lab that is supported by a Multijet Printer from 3D systems and Various Workshop tools

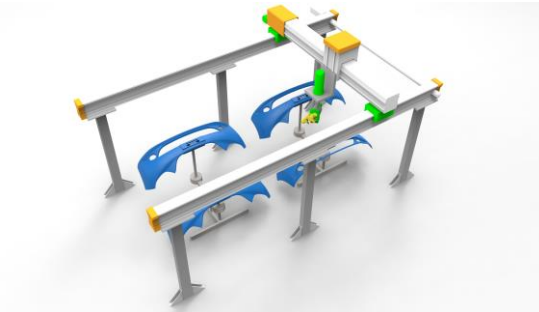
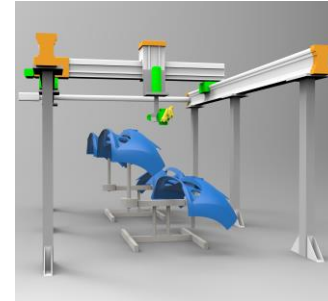


# Case Studies

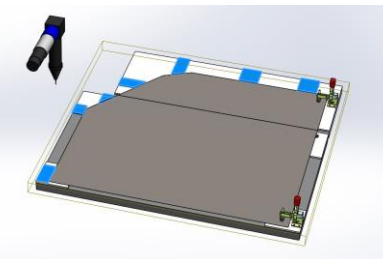
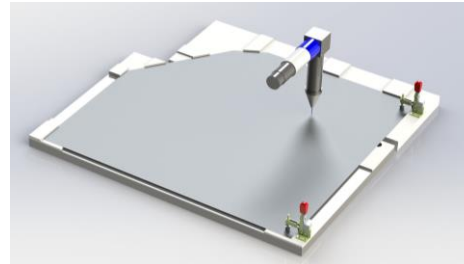
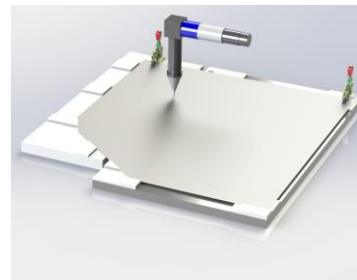
## Solar Powered Bug Trap for a Startup



## Automated Painting System for a Medium Company



## Laser Welding Jig for a Large Company



# Target Audience

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Entrepreneurs

Small to Large sized companies

Interested in Engineering Industries

Technically oriented with Industry knowledge



# Thank you

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