Design & 3D-Printing

ΓΑΛΑΝΑΚΗΣ ΜΙΧΑΗΛ
ΜΗΧΑΝΟΛΟΓΩΝ ΚΑΙ ΑΕΡΟΝΑΥΠΗΓΩΝ ΜΗΧΑΝΙΚΩΝ

Λέσχη Ρομποτικής

15 Μαΐου 2018
WHAT IS DESIGN?
Design is not just what it looks and feels like. Design is how it works.

Steve Jobs

**design**  /dɪˈzaɪn/

**noun**
1. a plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made.
2. a decorative pattern.
3. purpose or planning that exists behind an action, fact, or object.

**verb**

decide upon the look and functioning of (a building, garment, or other object), by making a detailed drawing of it.
Actually…
Design

- Original design
- Redesign

How Do I Start?
Software
User interface
It all starts with a good idea

Let's build it!

- A factory on your desk
WHEN
1984
Charles (Chuck) Hull developed the first 3D printer and named the technique as **Stereo lithography**.
• Additive manufacturing
• Layer by layer
• Different methods (FDM, SLS, SLA,...)
Extrusion

A thermoplastic filament moves through a heated deposition nozzle head and is deposited in layers to build a part.

As material hardens, it binds to previous layers.

ABS, PLA, and others. Materials often the same as those used in injection molding.
Be patient…
CAD => STL => SLICER => G-CODE => PRINT
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Alternative solutions
3d printer helps us with everything
Τι κερδίζει κάποιος από την λέσχη ρομποτικής;
Απορίες

Σας ευχαριστώ για την προσοχή σας

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