



Von der Skizze bis zum Roboter

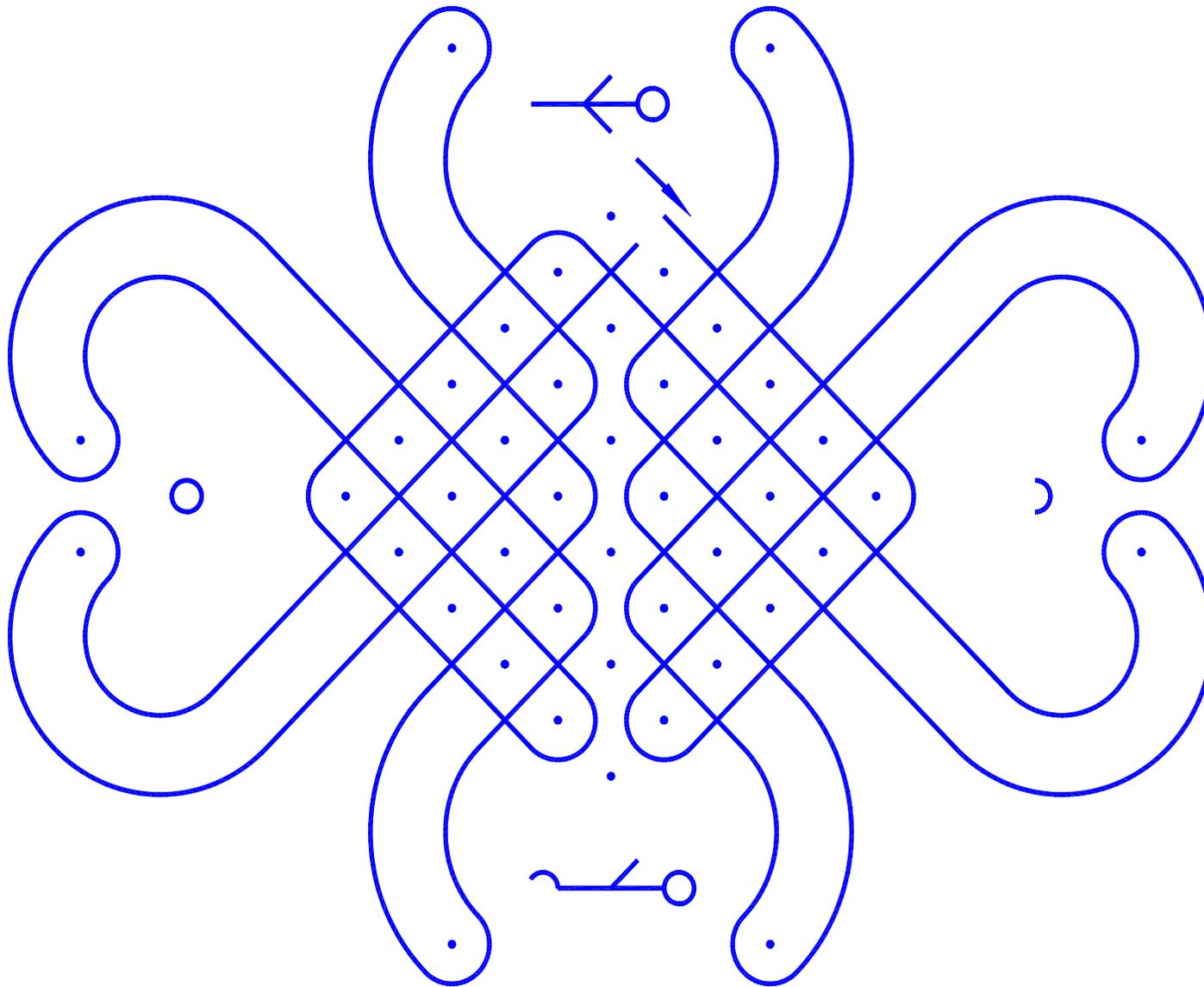
Strobl
09.11. - 11.11.2010

Albert Wiltsche
Institut für Architektur und Medien
TU Graz



- Wo ist denn überall **Geometrie** drin? -

Kinderuni - Geometrische Idee - Technik

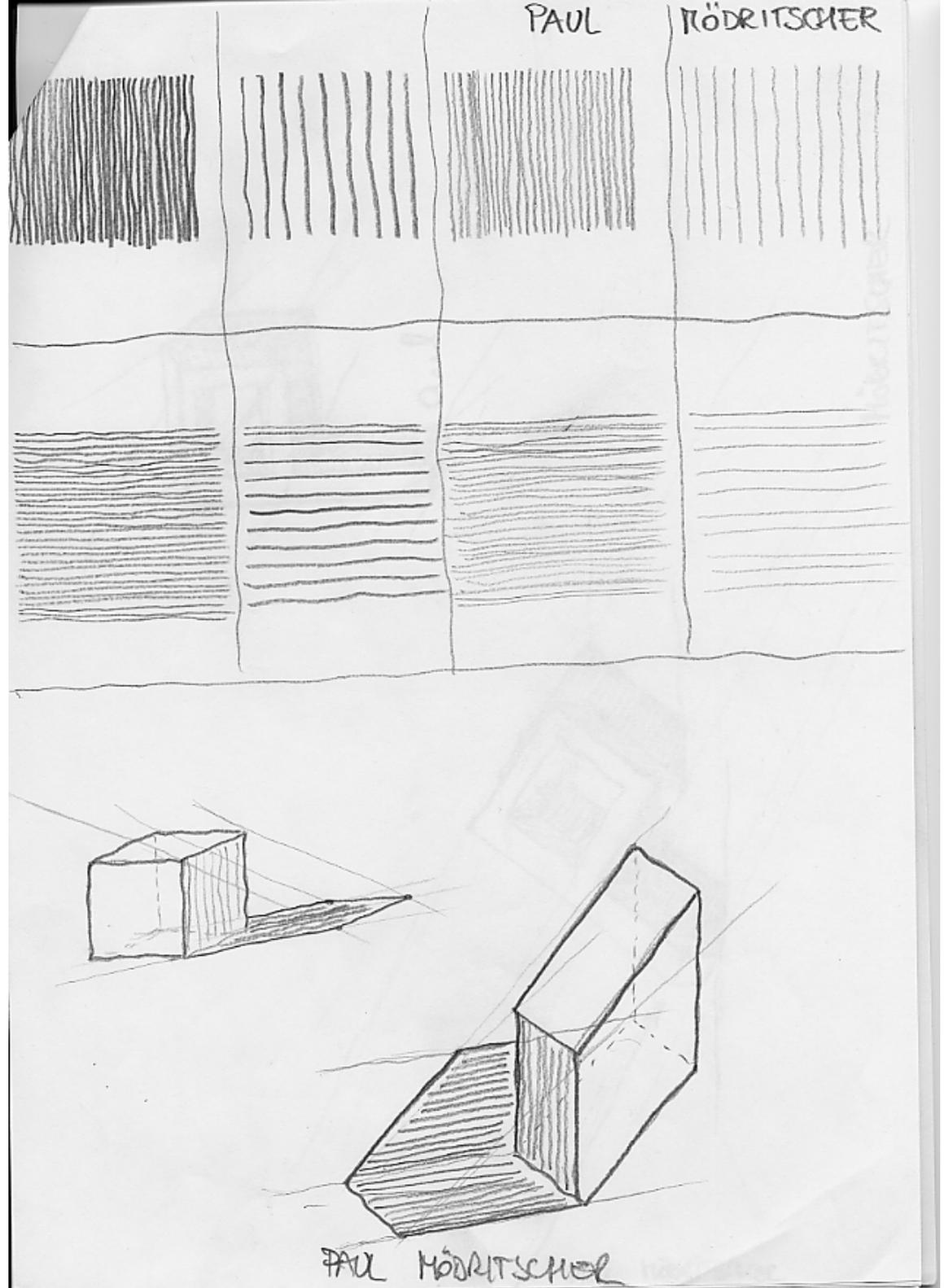


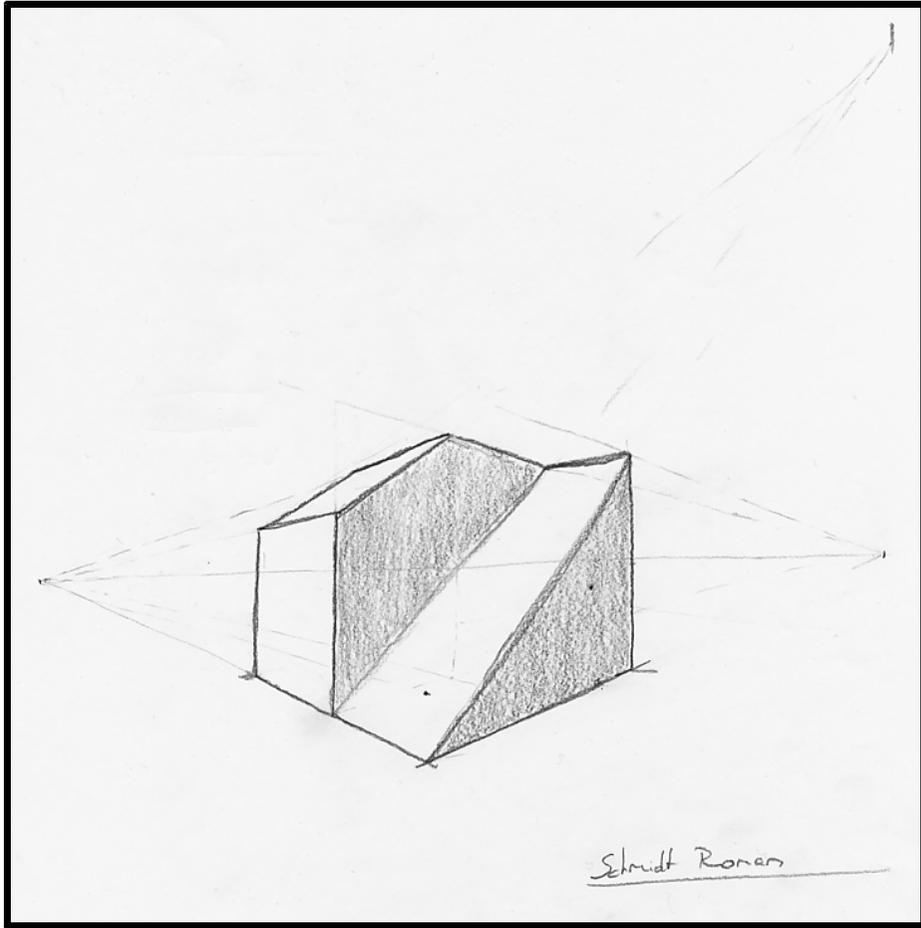
Skizze → Roboter

- Skizze -

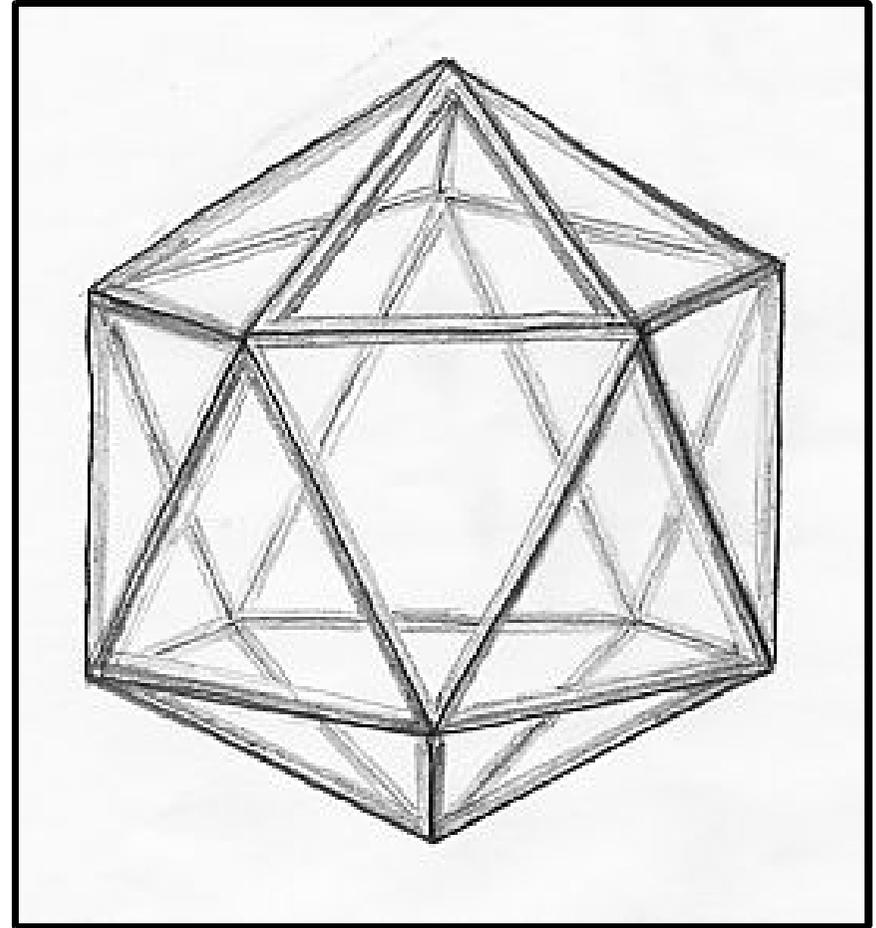


Woher kommt die Fähigkeit
eine Skizze zu zeichnen?

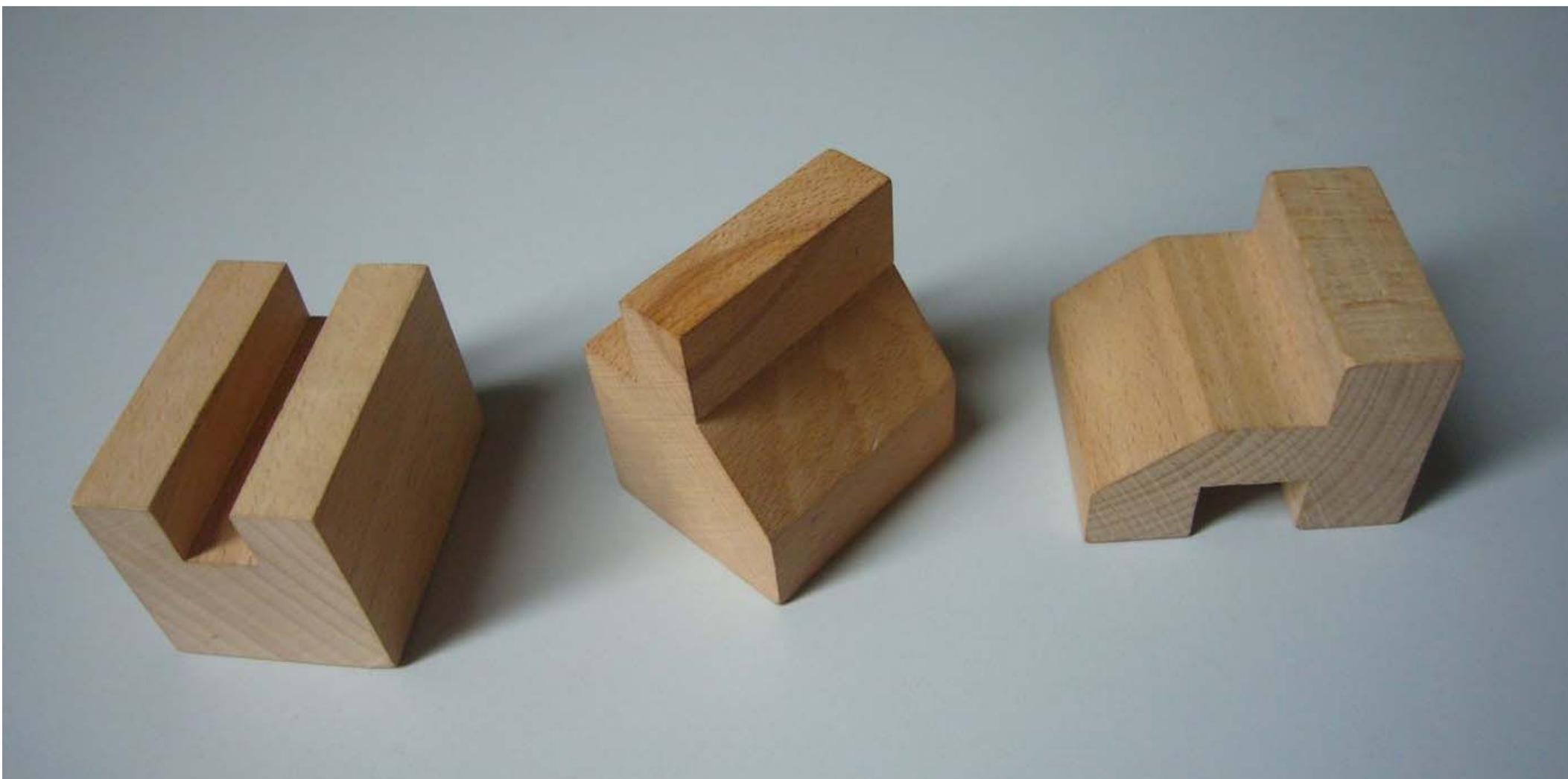




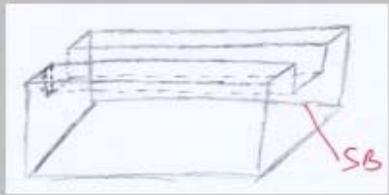
Auswendig Zeichnen



Korrektes Abzeichnen



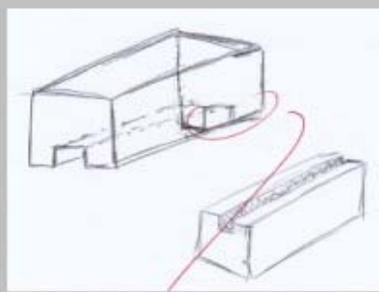
GZ- Holzmodelle



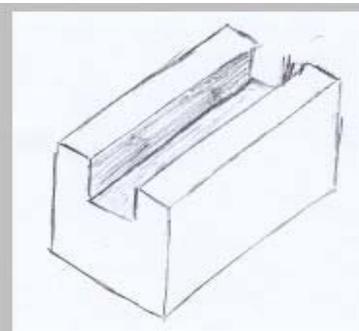
bsp01-01.jpg



bsp01-02.jpg



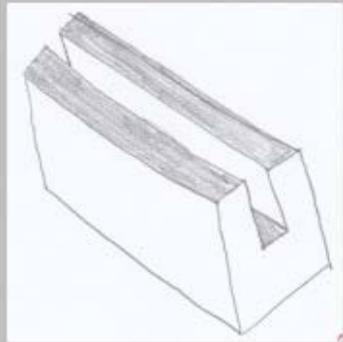
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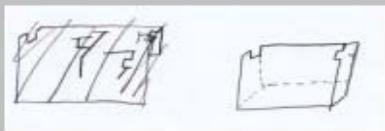
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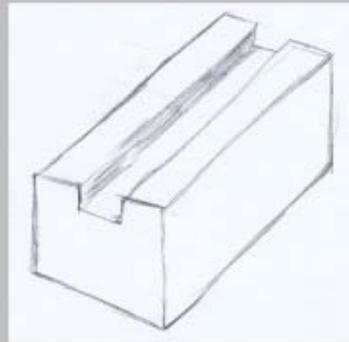
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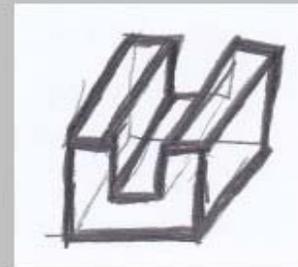
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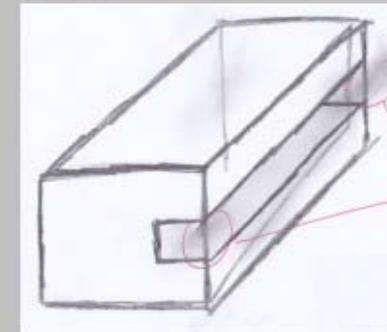
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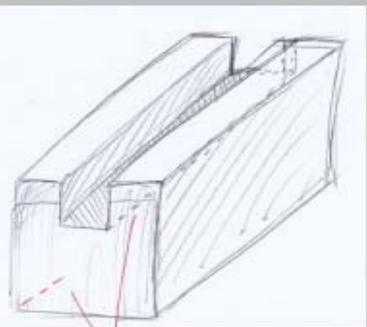
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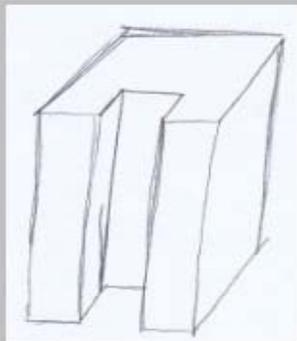
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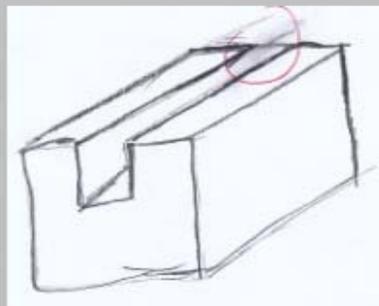
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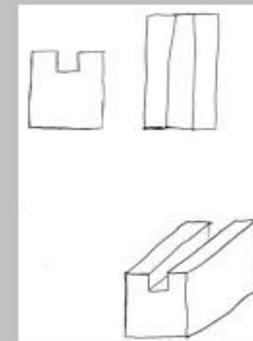
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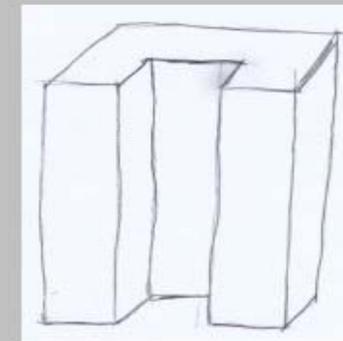
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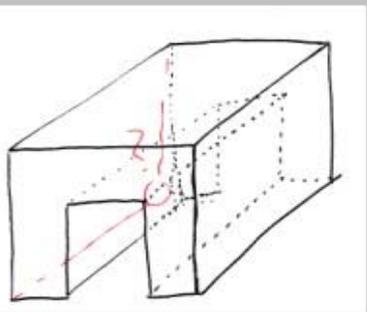
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bsp01-14.jpg

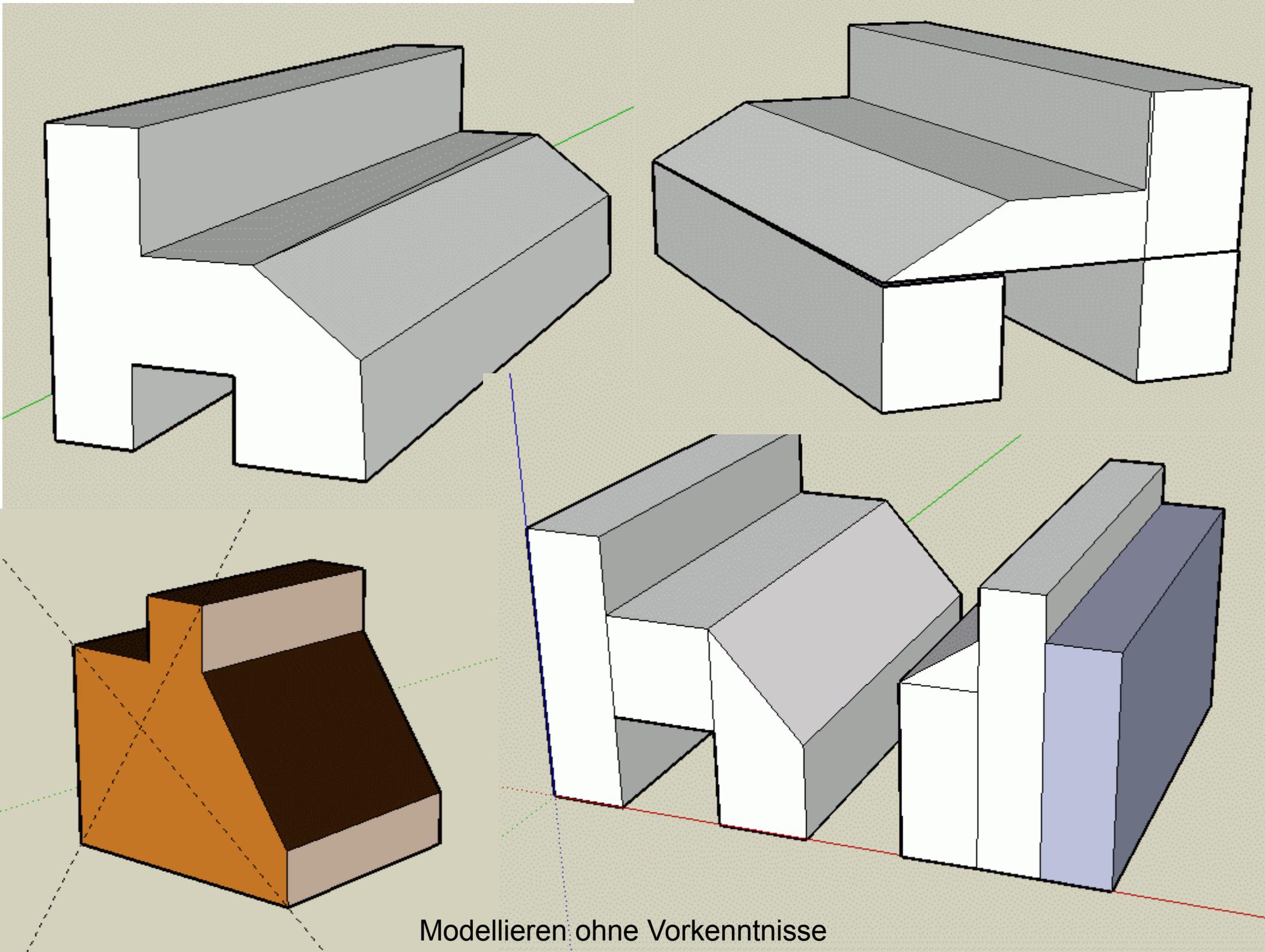


bsp01-16.jpg



bsp01-Leh.jpg

Skizzieren ohne Vorkenntnisse

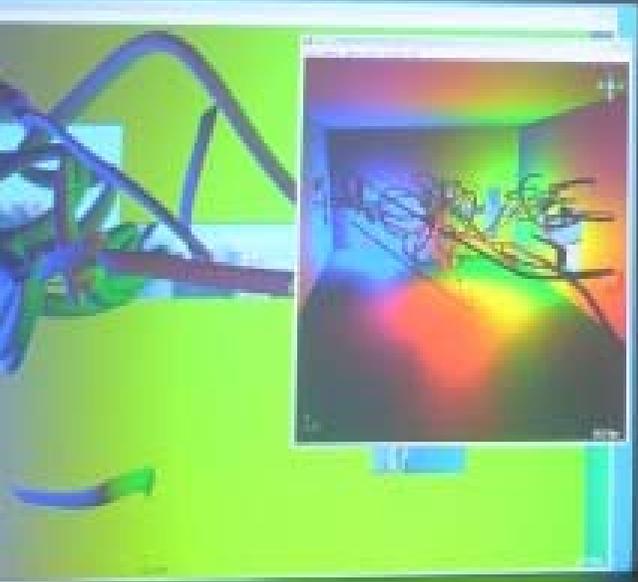


Modellieren ohne Vorkenntnisse



Virtueller Raum

Virtueller Raum





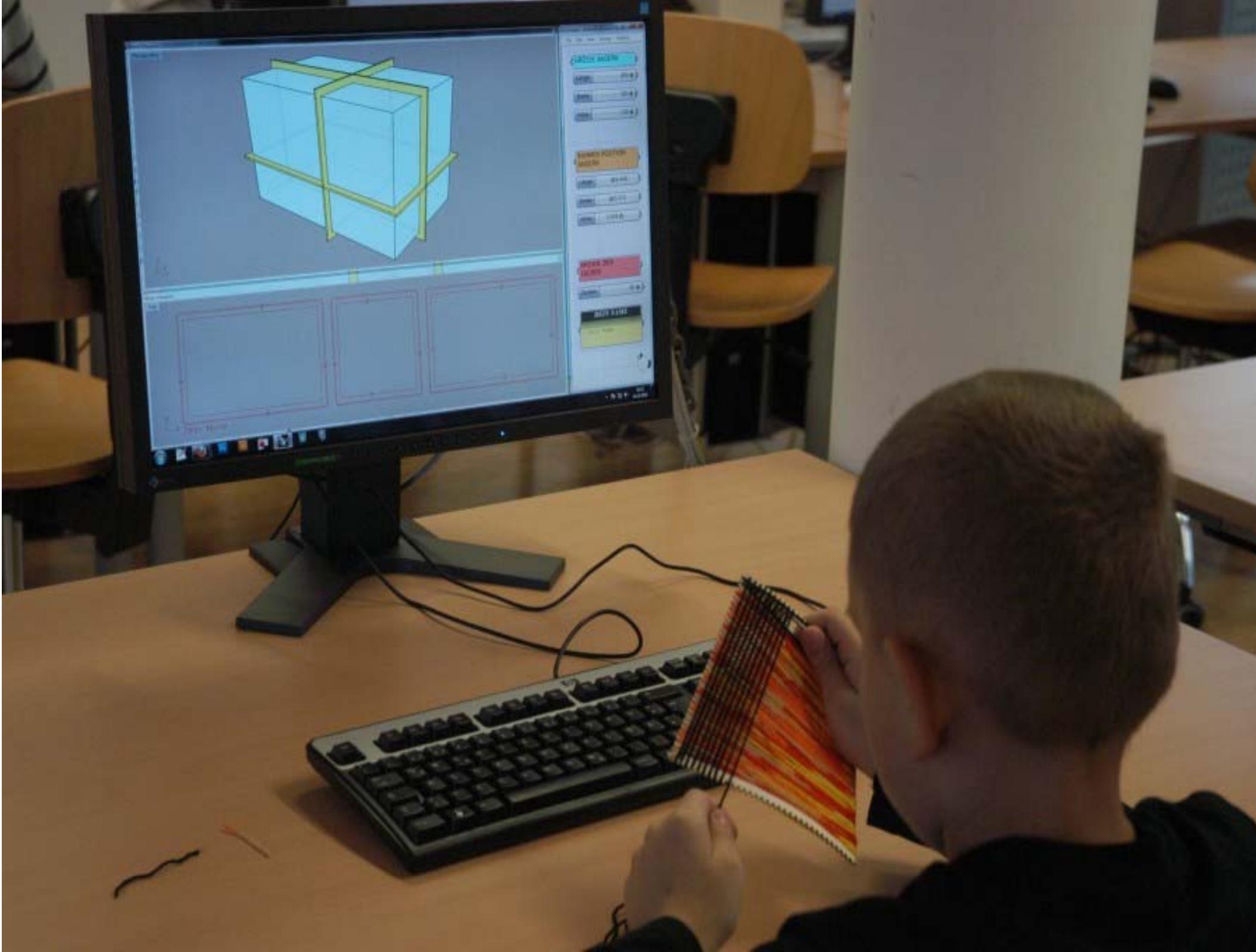


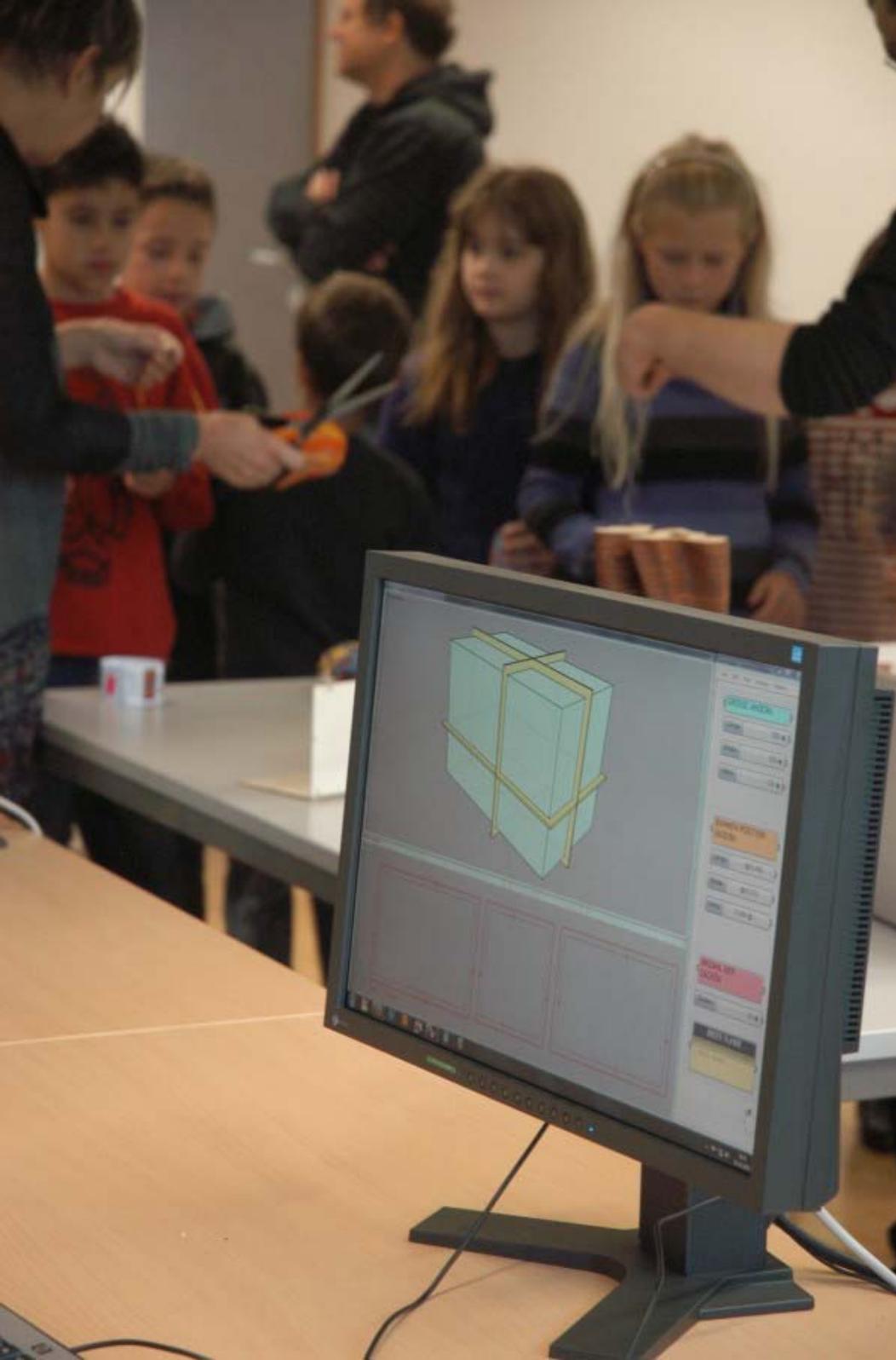


Parametrisches Wohnen

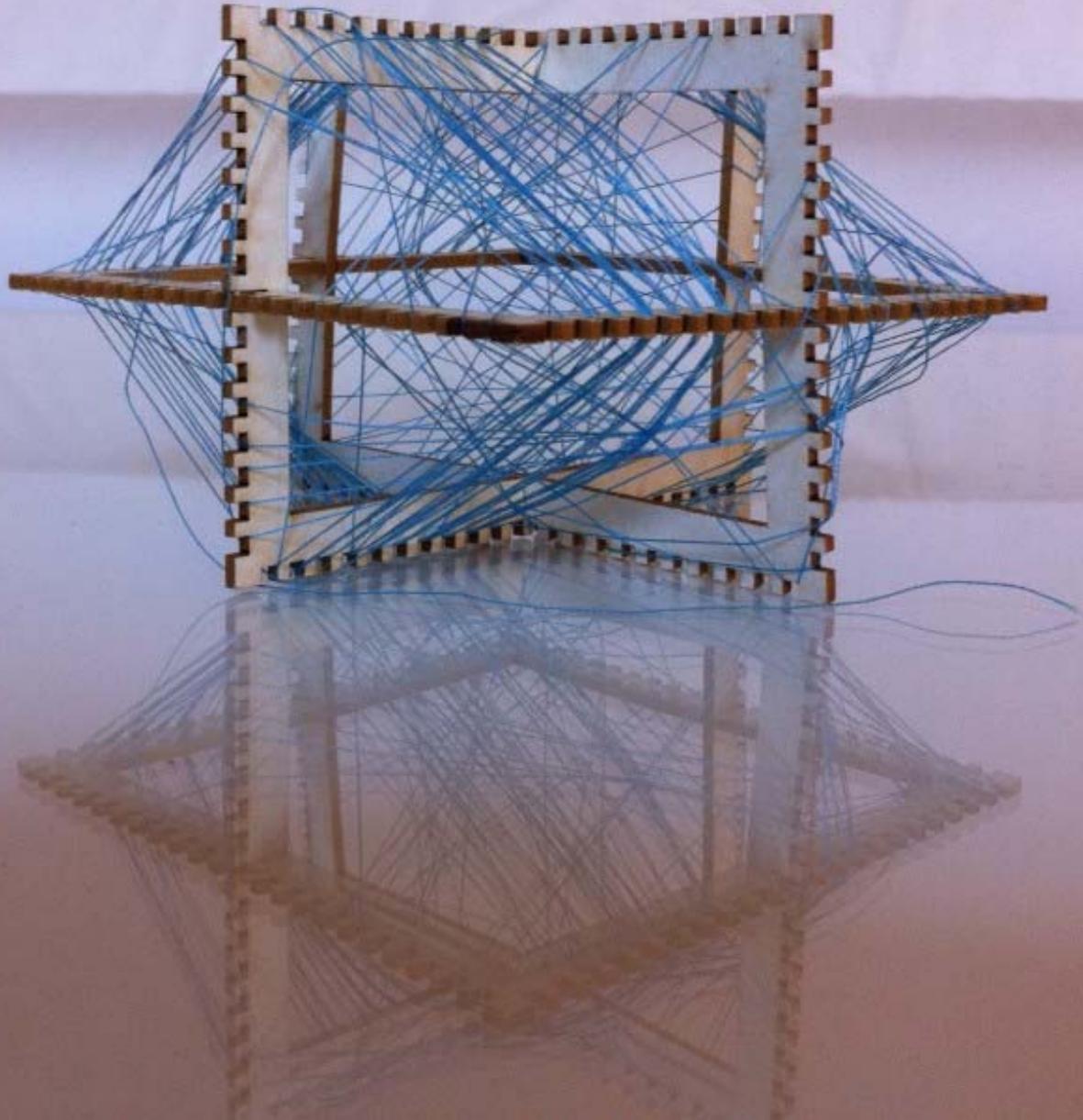


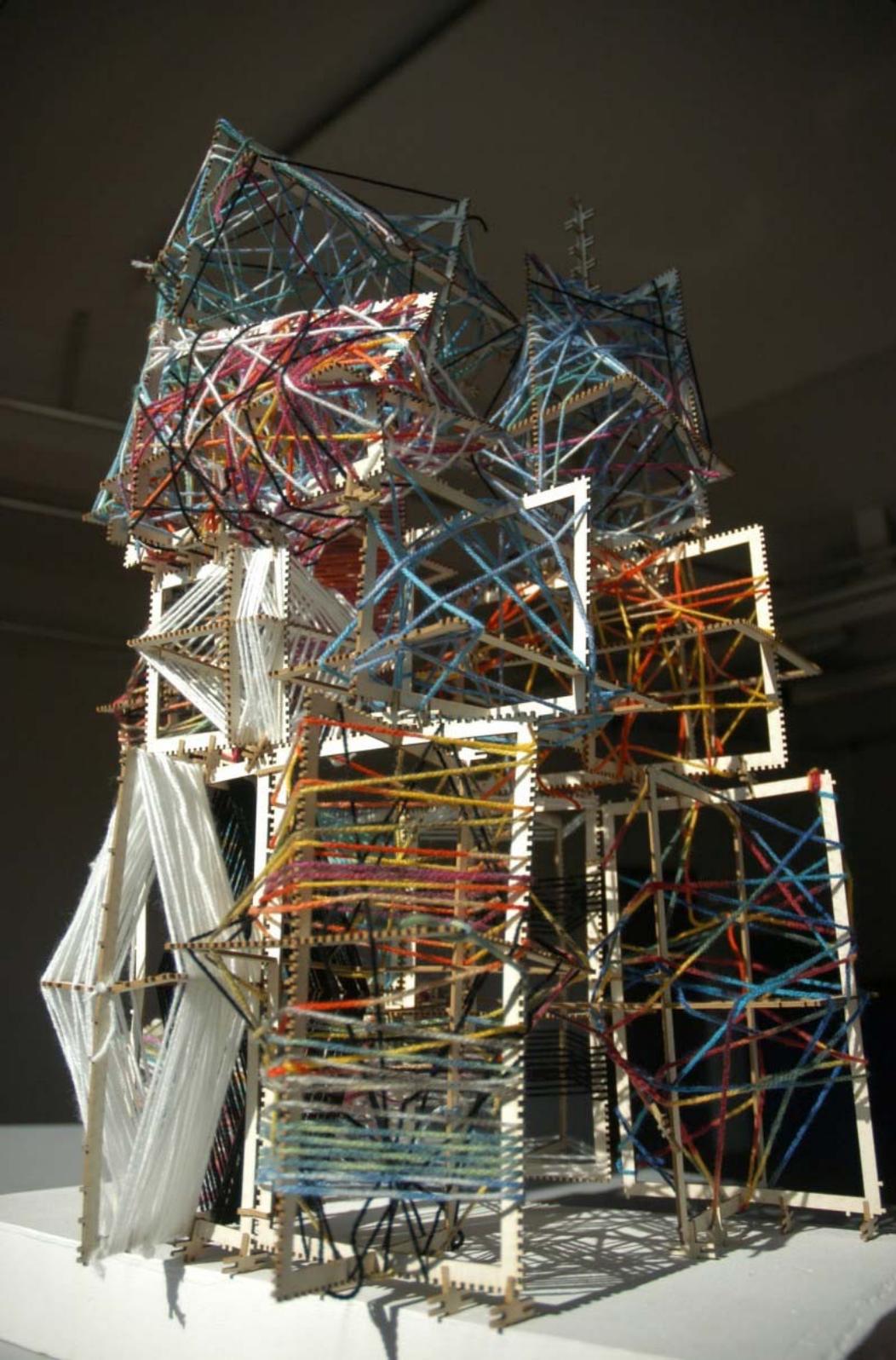






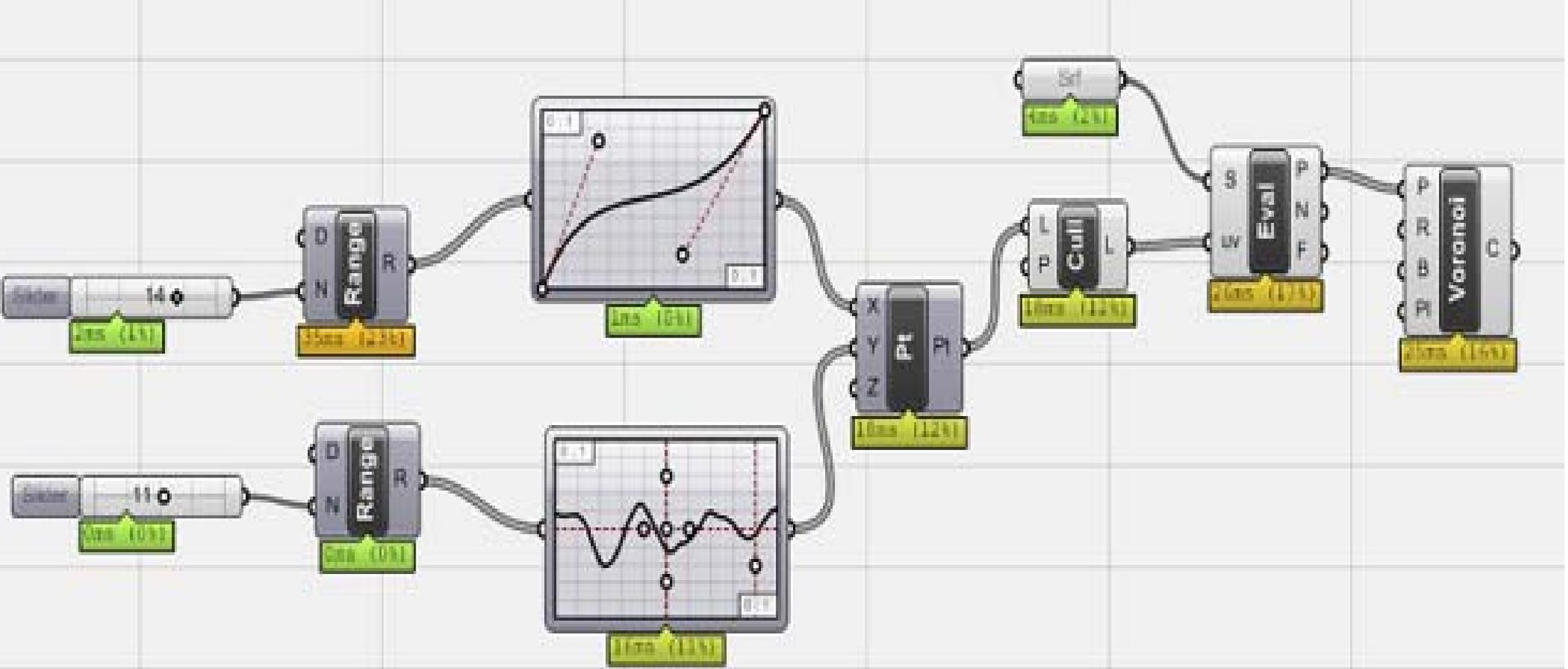






Parametrisches Konstruieren

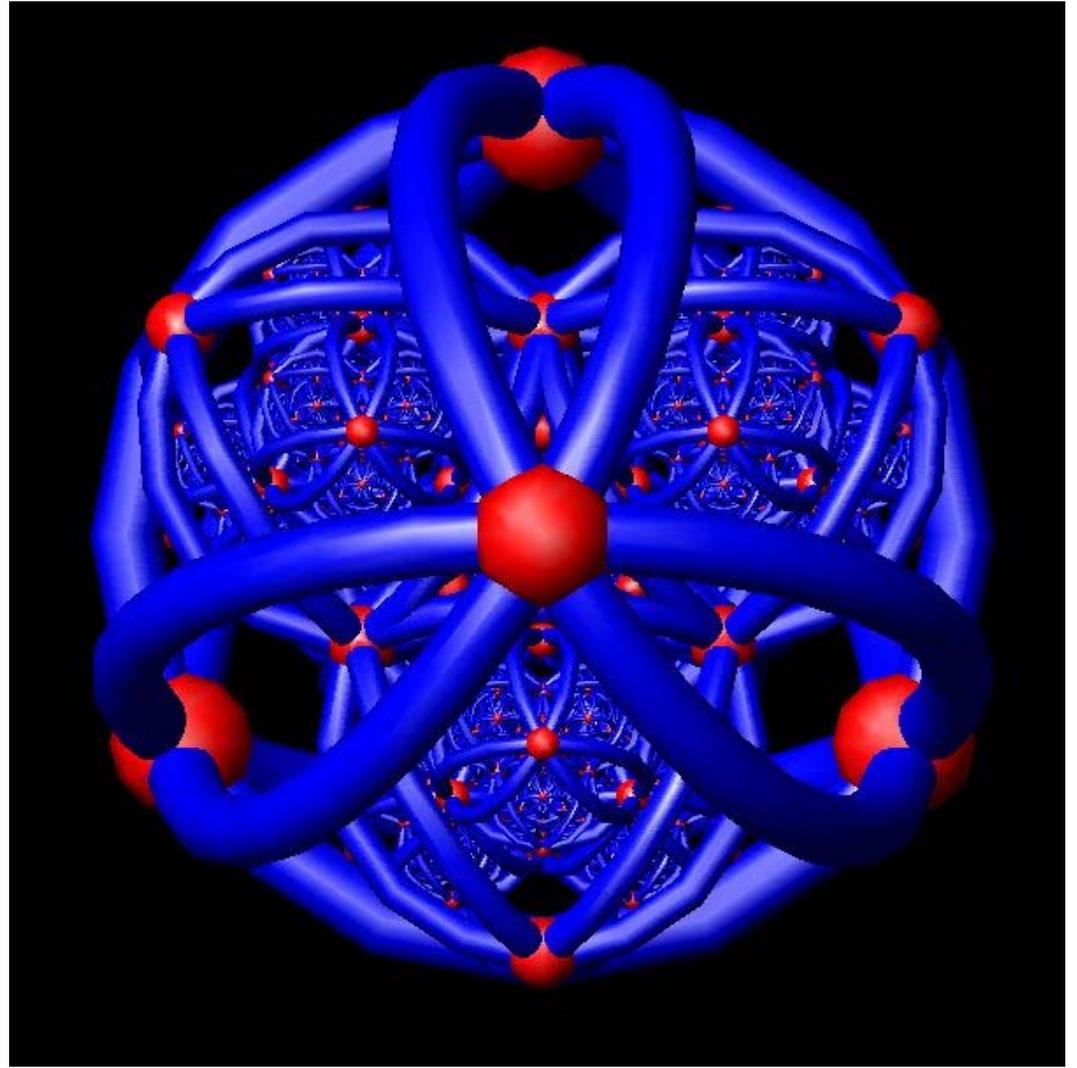
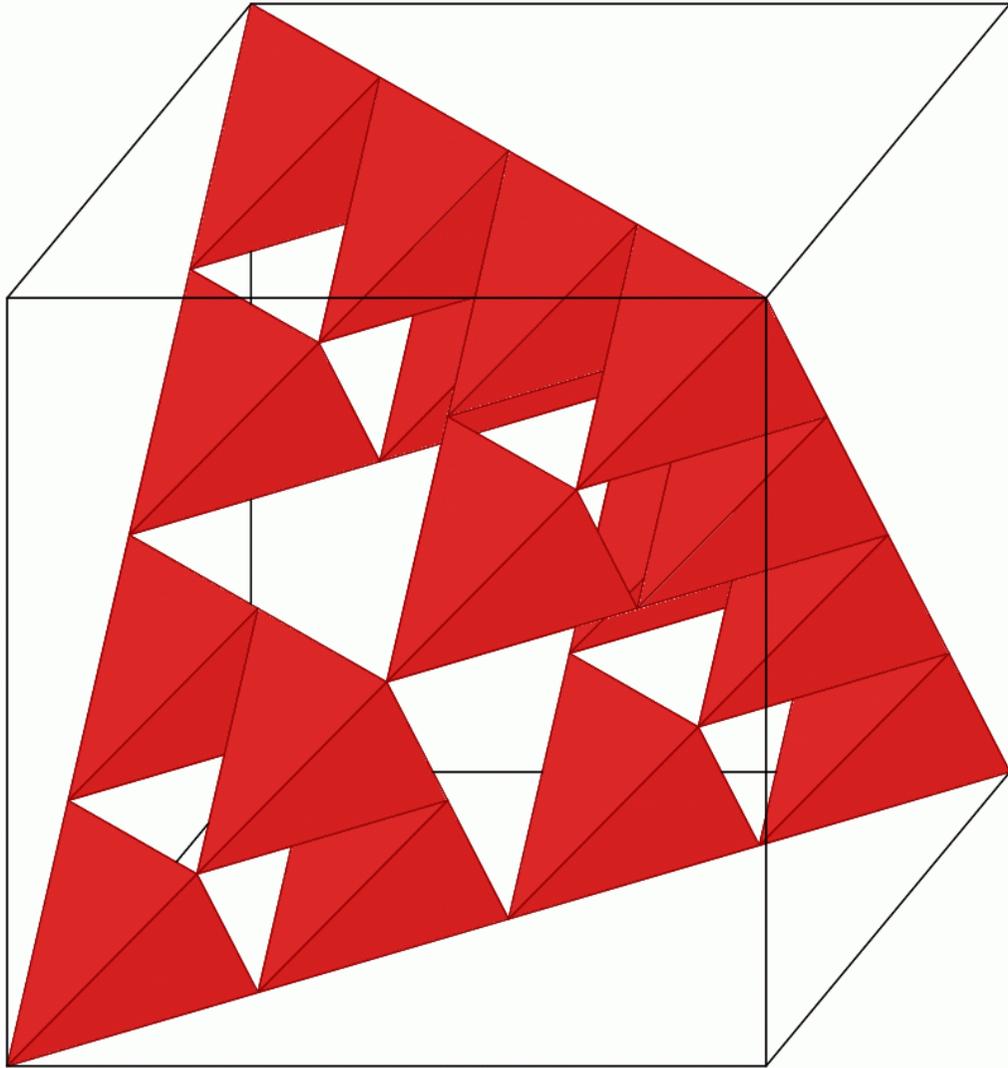
- Formeln
- Vektoren
- Schleifen
- ...



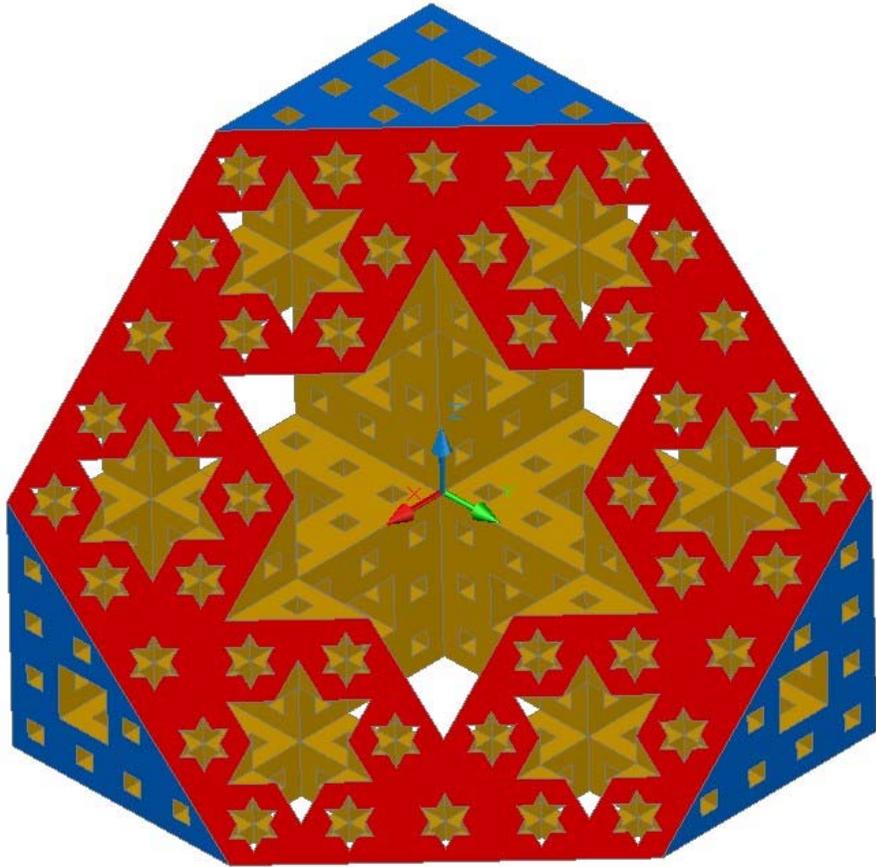
- Geometrische Idee -



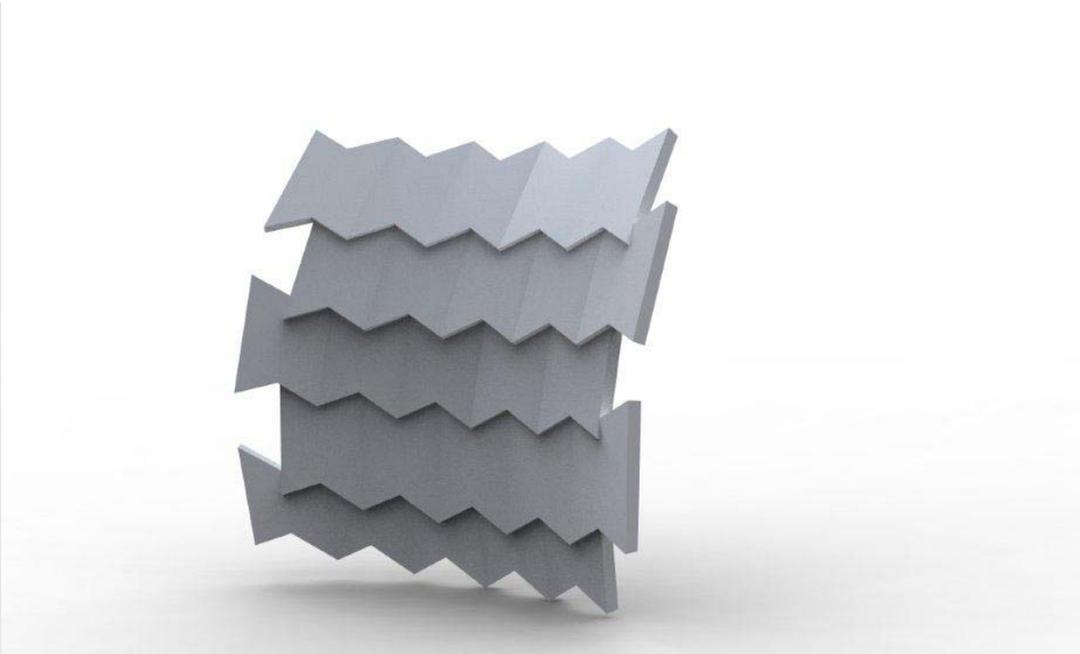
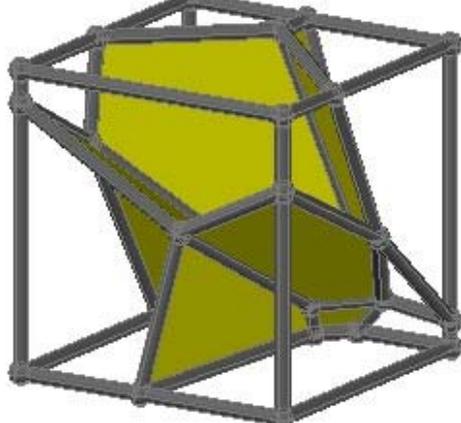
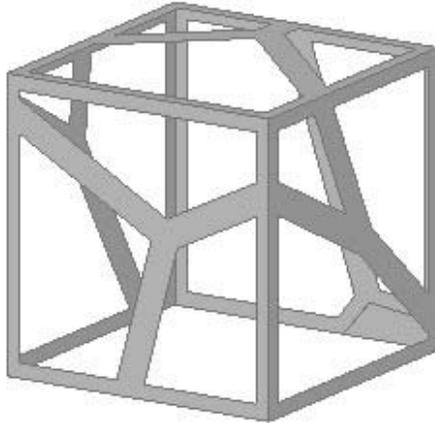
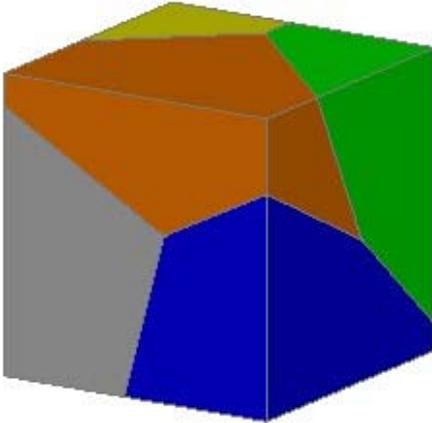
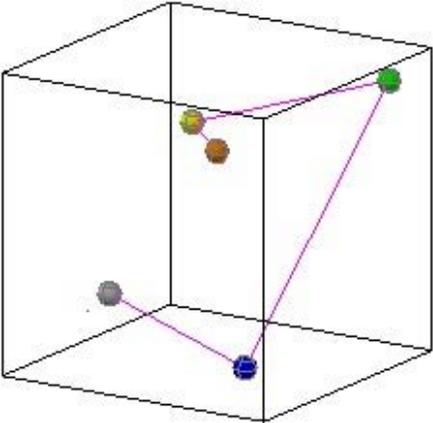
„Tetraeder-Fraktal“



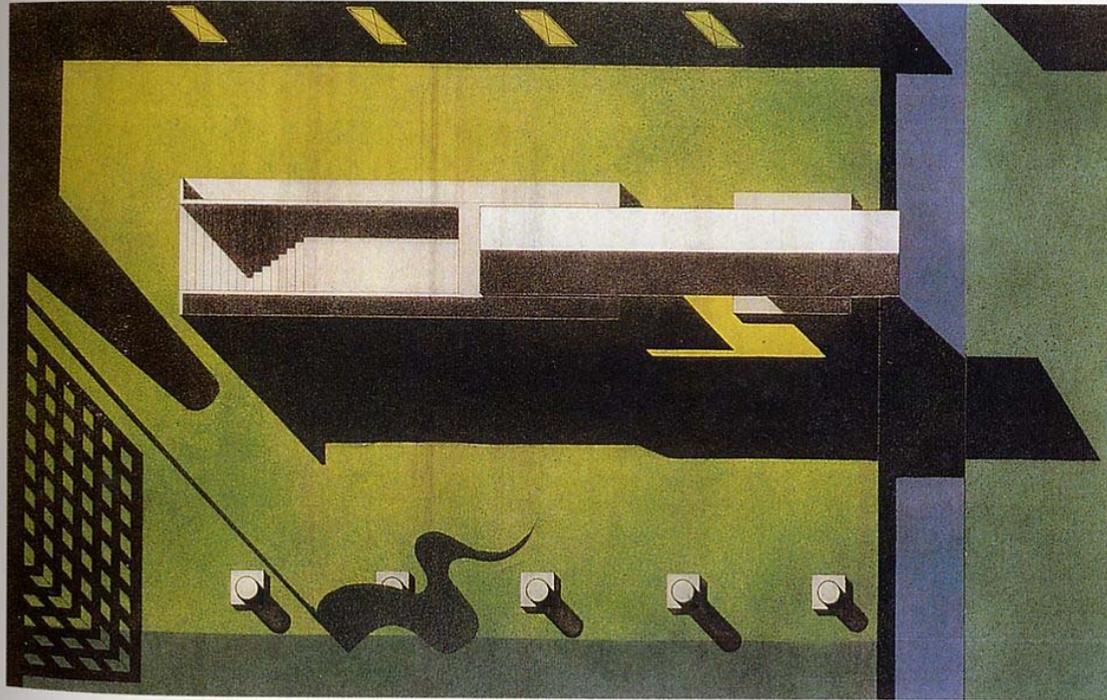
„Würfel-Fraktal“



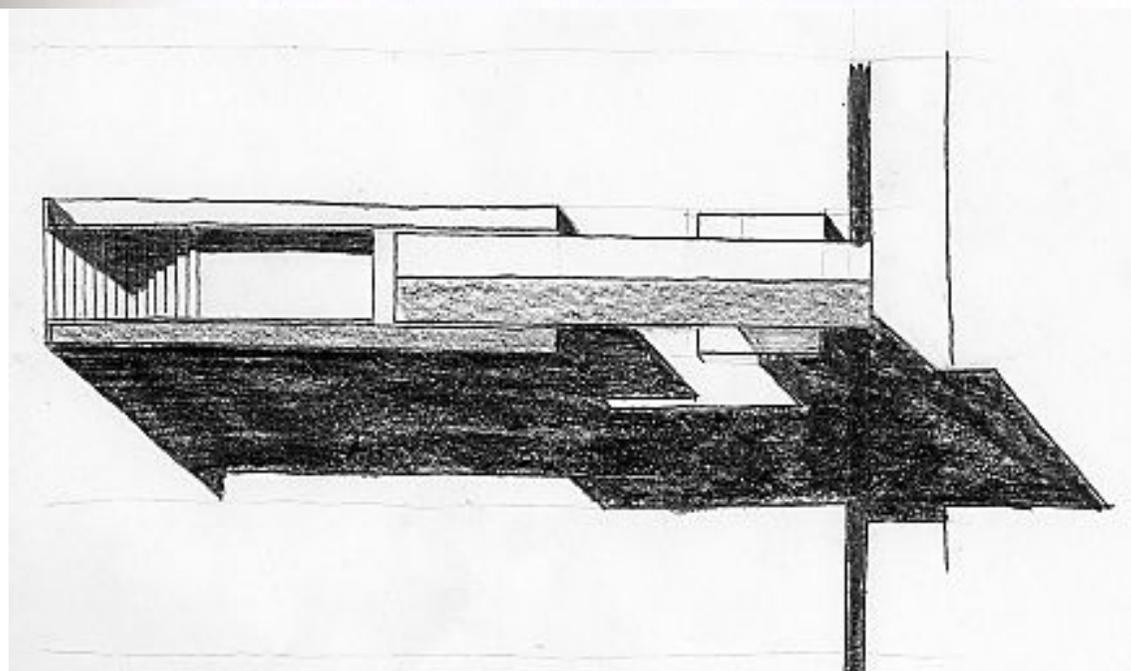
Voronoi-Zellen/Triangulierungen



Rathausplatz und Denkmal für den Widerstand in
Mailand, Entwurf von Aldo Rossi.
Aufsichtsdarstellung. Betonung der Räumlichkeit
mit starken Schlagschatten.



2D – 3D ?



2D – 3D – 4D ??

Ebene Geometrie

Raumgeometrie

Euklidische Geometrie

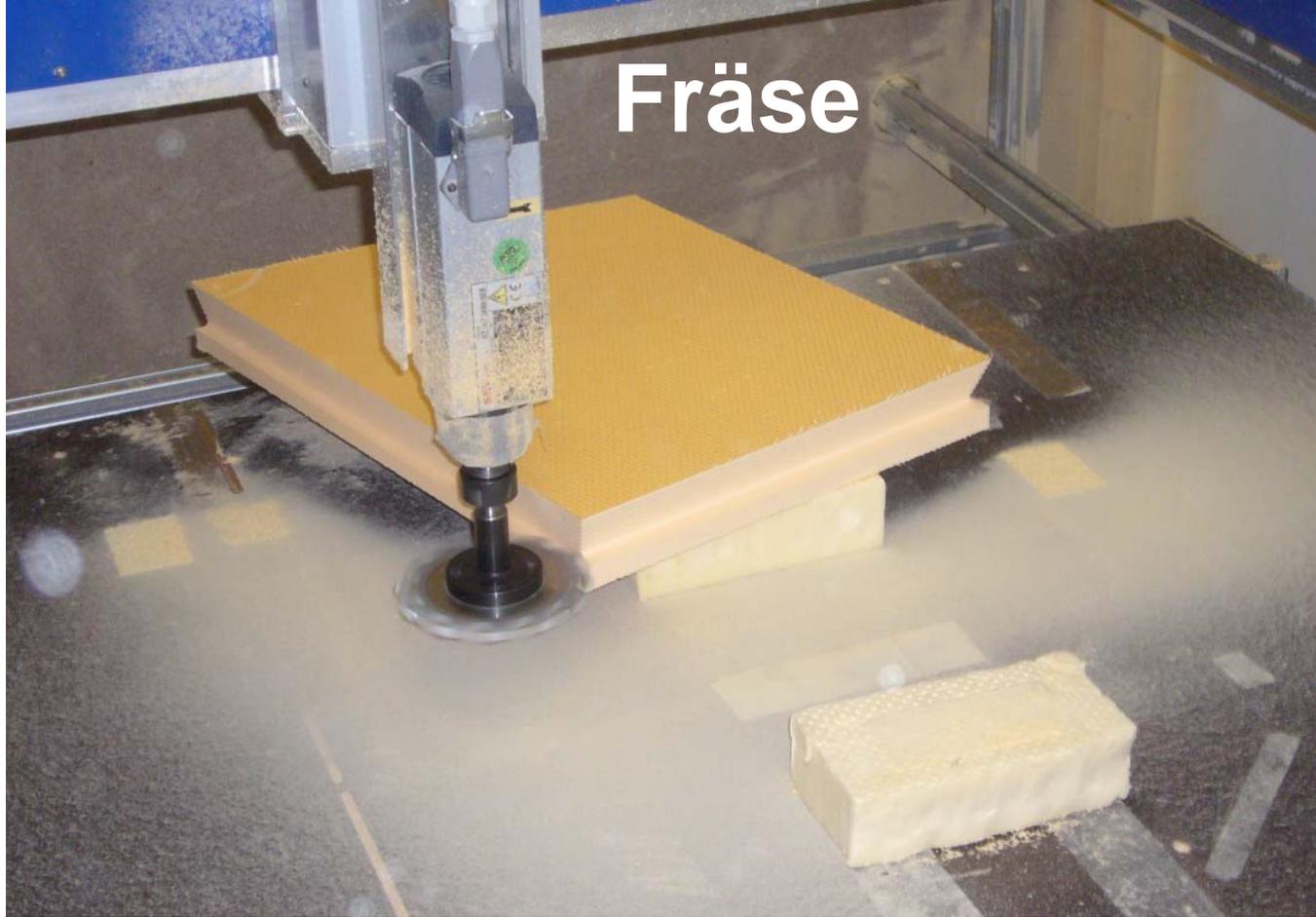
CAD

- Technik -

3D-Druck



Fräse



Thomas

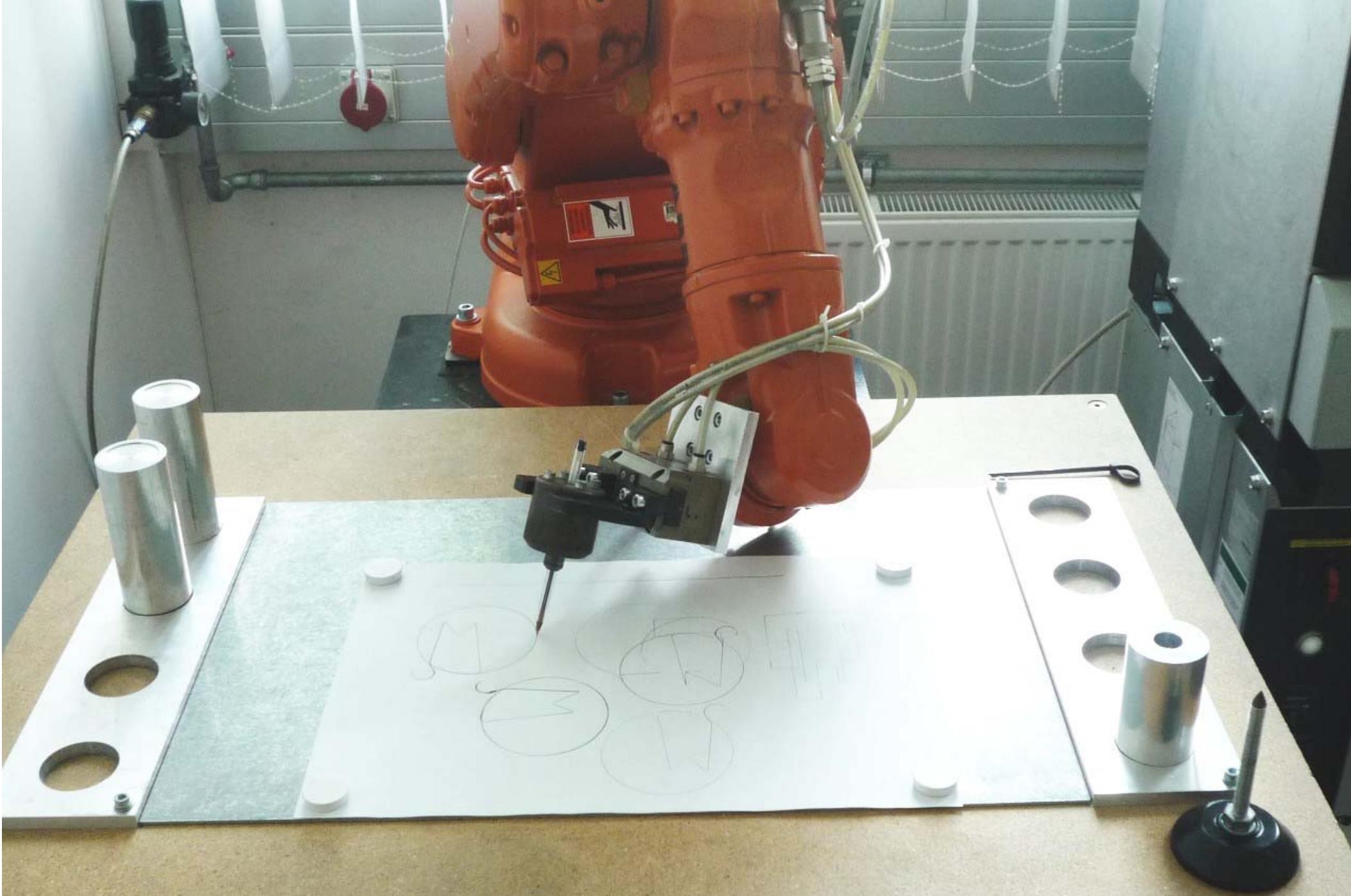


Virtual Reality



Robotik





- Ende -