

Learning area 1 - 3D data generating

Module A: 3D Scanning

Content overview

In this workshop you will learn the basics of 3D scanning and how to use the 3D scanners in the Maker's Factory. We will look at different scanning technologies, go through the workflow and scan an object. The following topics will be covered within the course.

- What the differences are between the available 3D scanning technologies in the Maker's Factory.
- How to use the Fixed and Auto scan modes of the EinScanSE 3D scanner for reverse design.
- How to use the StructureSensor to scan a room, person, or body part.
- What there is to optimize scan results.
- How to post-process the captured 3D data for various applications.
- How to export your 3D scan for 3D printing.

Modules

1. introduction to 3D scanning
2. scanning process using Scanekt and EinScanS software for both scanning technologies in Maker's Factory.
3. post-processing of the scan data

Objectives

- After successful participation in this workshop, you will be perfectly positioned to independently operate the 3D scanners in the Maker's Factory to easily generate 3D data from reality. In doing so, a membership or day pass is the only thing standing between you and your finished product.
- You will understand what the different 3D scanning technologies are and what the pros and cons are.
- You will be trained on which scanning technology best fits your needs and how to execute it to transfer it into the Scanekt and EinScanS software tools.
- We also learn the different methods for post-processing and exporting data to transfer it to reality on the 3D printer down the road.

What should be brought

- If you have an object you want to scan that is approximately 15x15x15 cm, feel free to bring it.

Duration: 2 hours

Minimum age: 18 years

Number of participants: 3

Language: Course languages are German or English (depending on demand)

Costs: Free within active membership, otherwise you need a day pass