Era-Drilling Robot

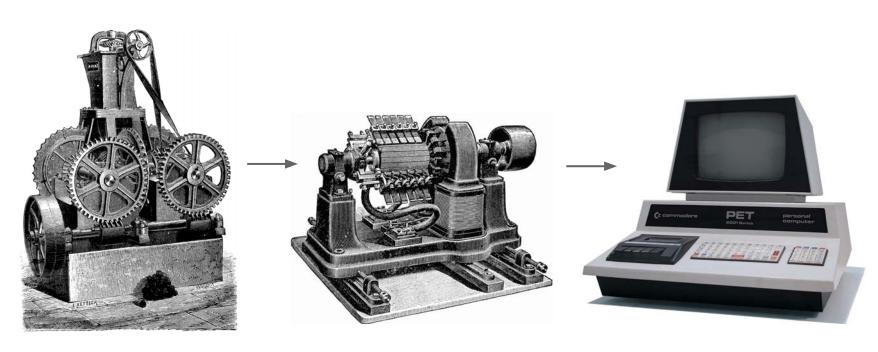
Interface Design Master Projektmodul

Winter semester 2014

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From Mechanical to Digital Era



The Mechanical Era (the middle of 18th Century - the middle of 19th Century)

The Electric Era (the late 19th Century -the early 20th Century)

The Digital Era (after the late 19th Century)

Base: Hand Drilling machine



CHARACTER

Simple, analog, robust, durable

PURPOSE

A tangible foundation

MEANING

Represents mechanical era

THEME

Drilling through different eras

Electric components: Motor and LED



CHARACTER

Transformational, electric

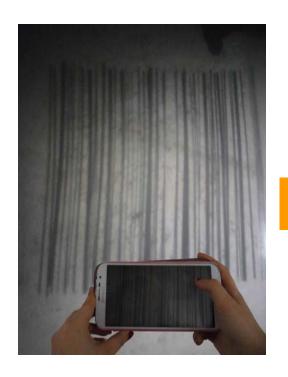
PURPOSE

A twofold connection

MEANING

Represents electric era

Digital element: Barcode projection



CHARACTER

Informational, haptic, digital

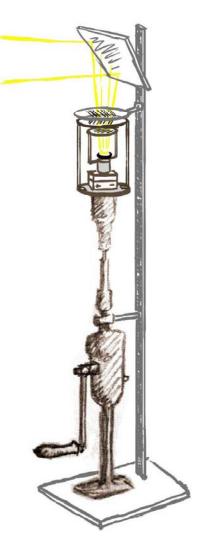
PURPOSE

A terminal with infinite possibilities

MEANING

Represents digital era

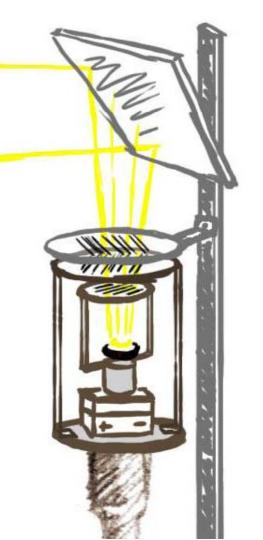
Combine three elements to create a playful and meaningful projection.



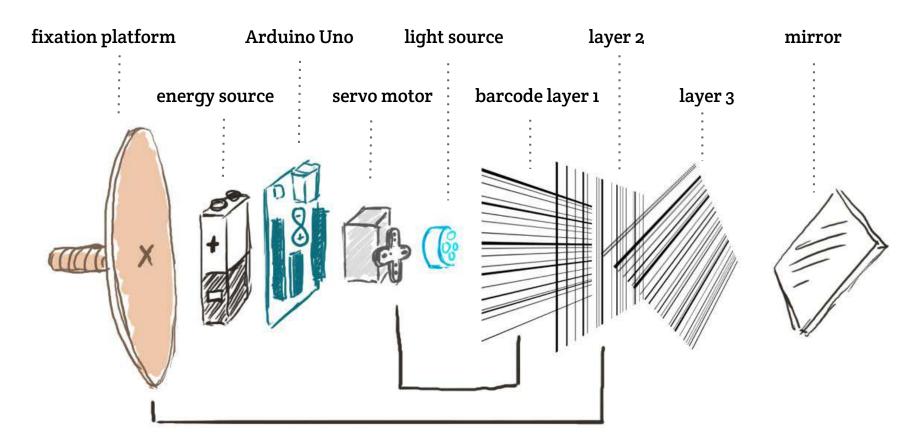
How it works

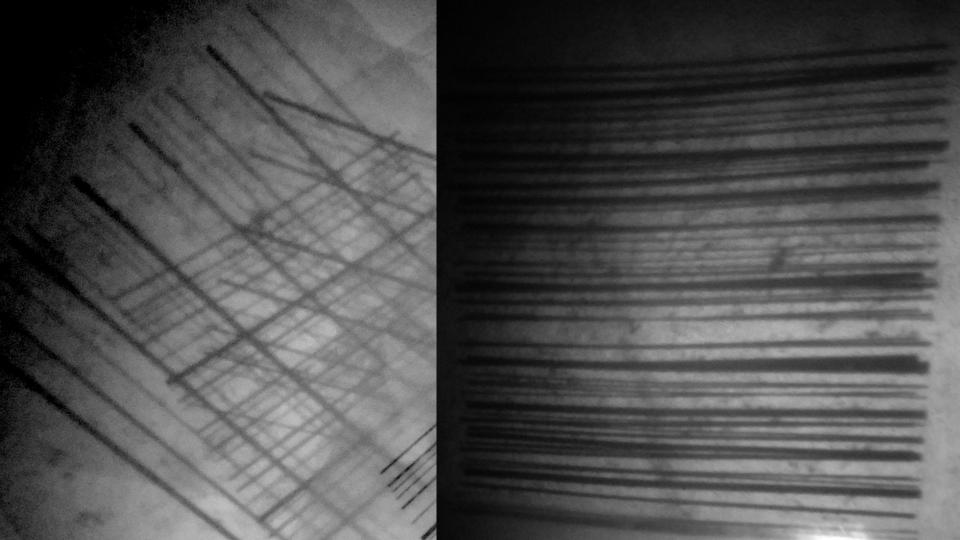
The three layers have to be combined playfully by using the machine to project the bar code,

which then can be scanned with a mobile device.



Structure







Video clip

Infinite possibilities

The code can lead to:

- Another associated robot/project
- · An information web page (e.g. for commercial)
- · A new step within the project (e.g. usage of camera)
- Interact with other projects (e.g. play with users elsewhere)

Installation

- Portable
- Overall appearance should fit the aesthetics of the drilling machine
 - Fit into different environments: e.g. exhibition, fair, installation
 - Material used: wood and metal

Further development

- 1. Adjustable layers and mirror to have better control over the projection
 - 2. Possibly controllable motor speed
 - 3. Different web page or project for the actual bar code