



ECAL - THE CENTER FOR COUNTER-PRODUCTIVE ROBOTICS (2017)



AATB - SOAP OPERA (2019)



ROBOTLAB - BIOS [BIBLE | TORAH] (2007)

PHYSICAL INTERFACES



AATB - HANDSHAKE (2020)



HYBRID THINGS LAB - HI HUMAN! (2024)



WILLIAM FORSYTHE - BLACK FLAGS (2015)

Prof. Andreas Muxel

Physical Interfaces – Creative Robotics

In the course we are exploring physical human-machine interfaces in the context of creative robotics. We will also have access to a collaborative robotic arm (Universal Robot URe), which can be operated via a simple interface. In this process, we use code and hardware as creative tools in the design process. The results will be presented as prototypes in an exhibition.

Topics

- Enactment & Embodied Interaction
- Creative Coding & Hacking
- Low- & Hightech Prototyping
- Scenario-Building & Staging

Tools

- TouchDesigner, P5.js, ml5.js, Unity, Unreal Engine
- Universal Robot UR5e
- Lasercutter, 3D Printer

References

- The Center for Counter-Productive Robotics (écal) <https://ecal.ch/en/feed/projects/5424/the-center-for-counter-productive-robotics/>
- Soap Opera (AATB) <https://www.aatb.ch/archive/soap-opera-v-a>
- bios [bible] (robotlab) <http://www.robotlab.de/bios/bible.htm>
- Handshake (ATTB) <https://www.aatb.ch/archive/handshake>
- Hi Human! (Hybrid Things Lab) <https://hybridthings.tha.de/hi-human/>
- Black Flags (William Forsythe) <https://www.youtube.com/watch?v=6XVrrmm9jno>