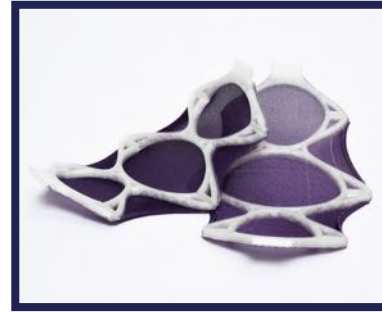


SINGING SWITCHES



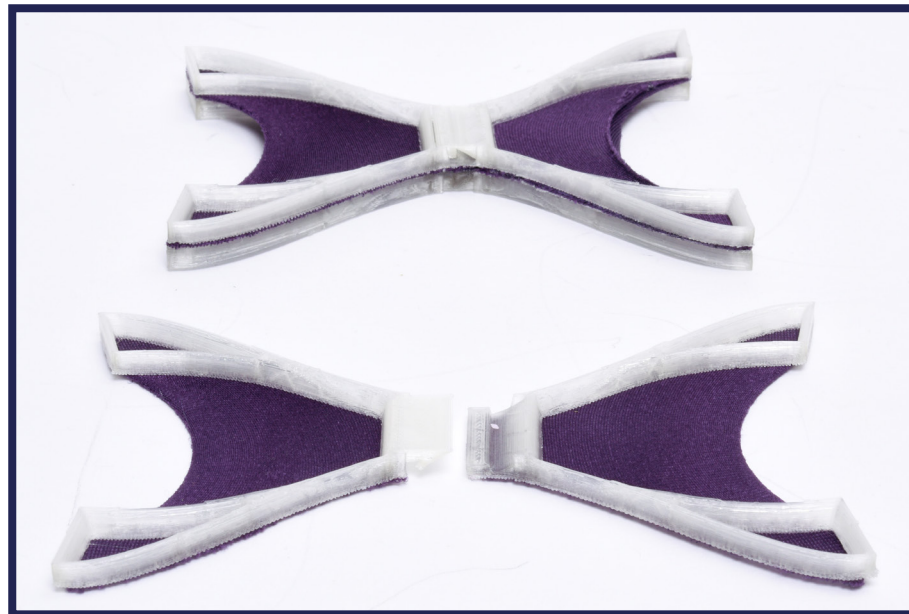
MODULES



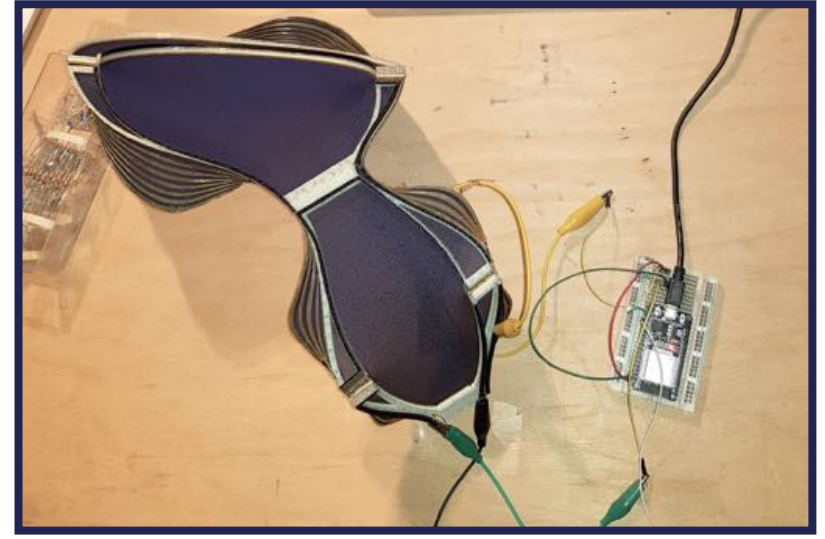
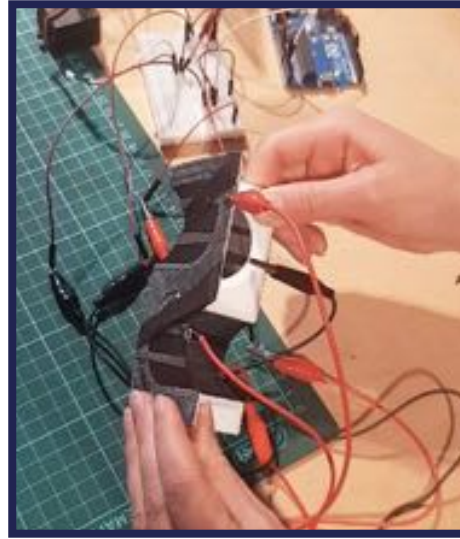
Based on previous work on hinge constructions made from 3D prints on textiles, the intention here is to use the tensile hinge as a basic construction that is suitable as a sensor for sound installations and conveys a more organic aesthetic.

CONNECTION

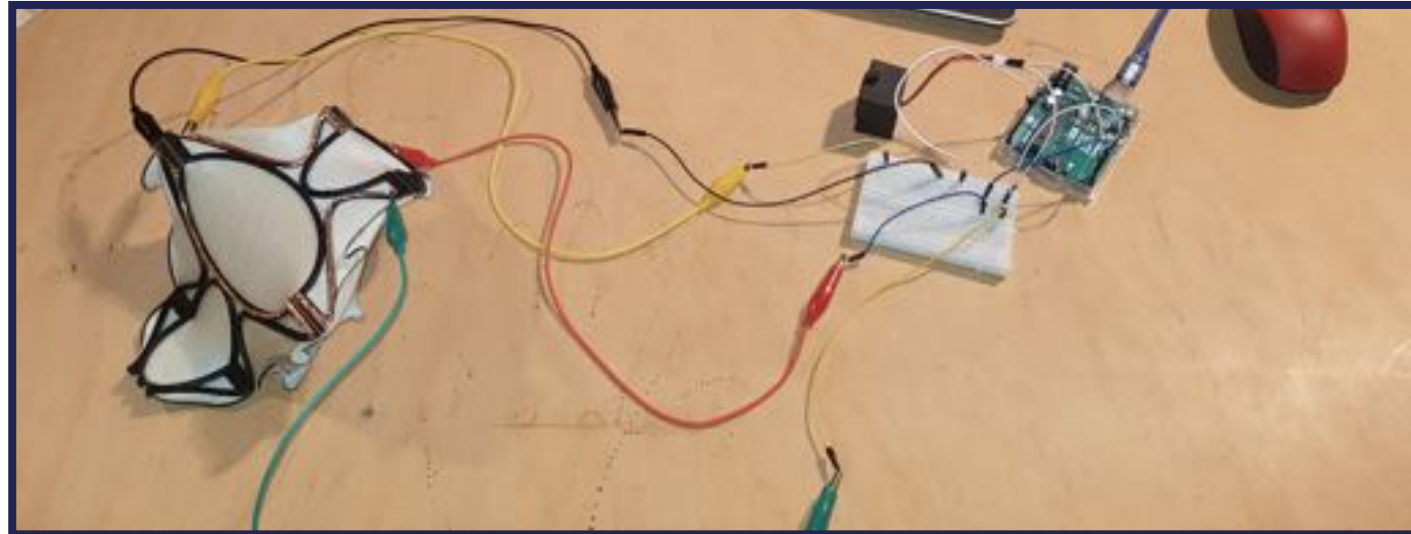
The commercially available 3D printers have a printing area of approximately 0.2 m². To connect several 3D prints with each other, the connecting elements shown here will be placed at the ends of the prints. In this way, larger areas can be formed.



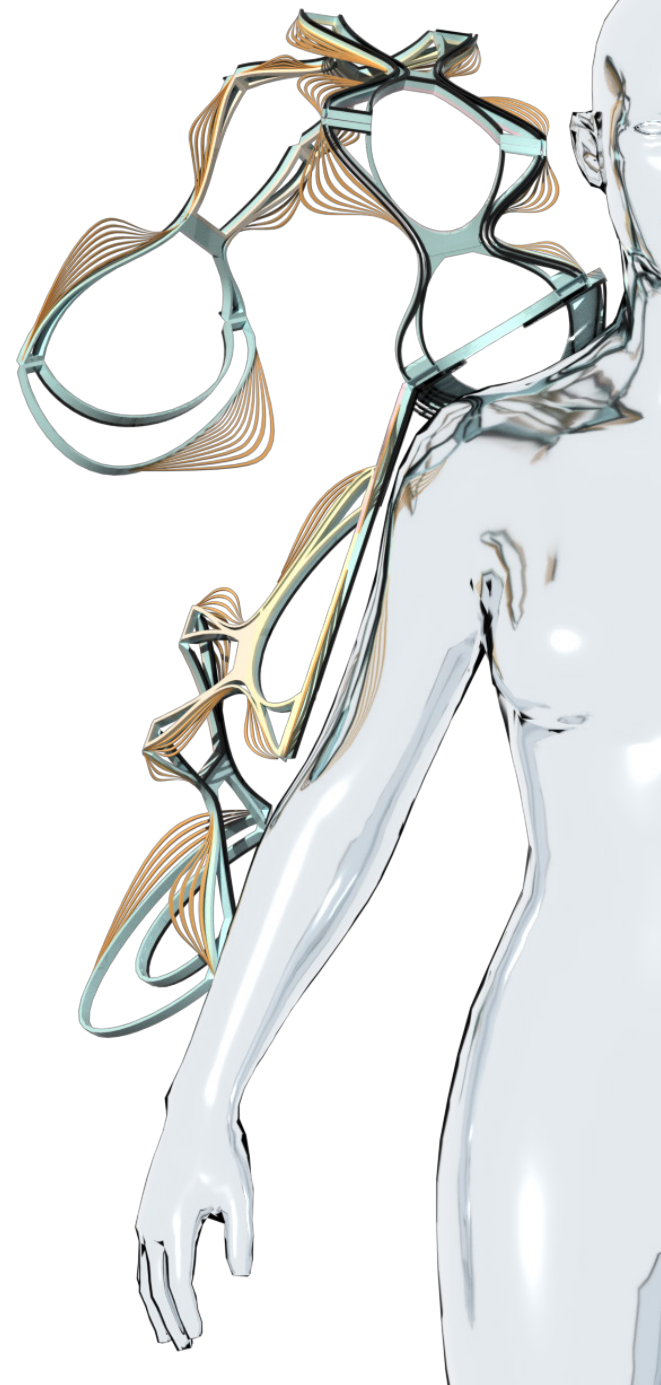
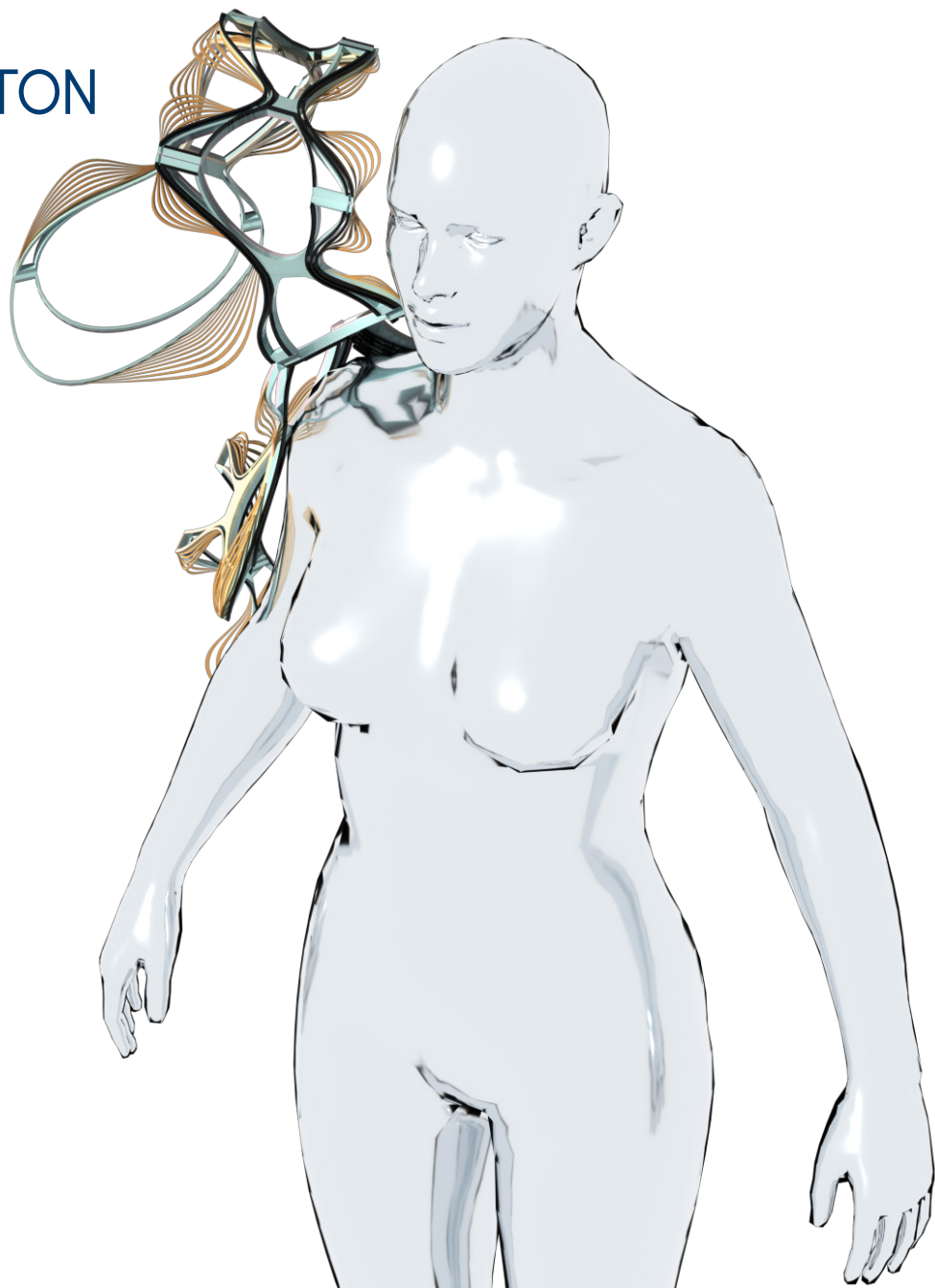
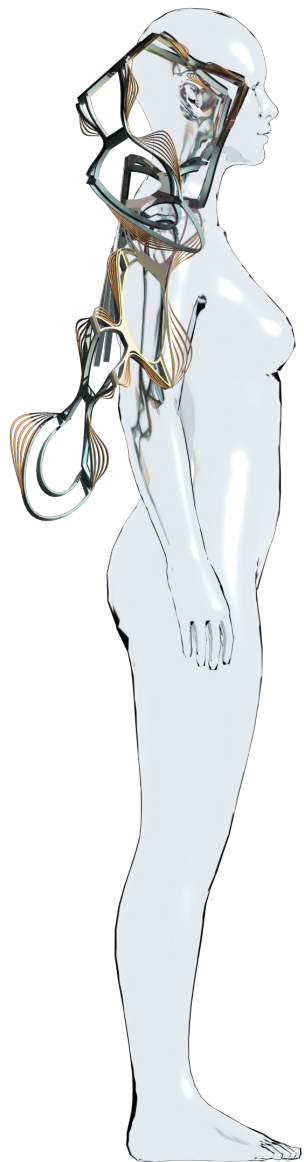
ELECTRICS



To use the 3D prints as sensors, the hinges in the modules are converted into switches. Conductive material such as silver-coated lycra, copper tape or conductive PLA are used in these prototypes. The circuit gets closed when the hinge is folded shut.



EXOSCELETON



INTERACTIVE PROTOTYPE



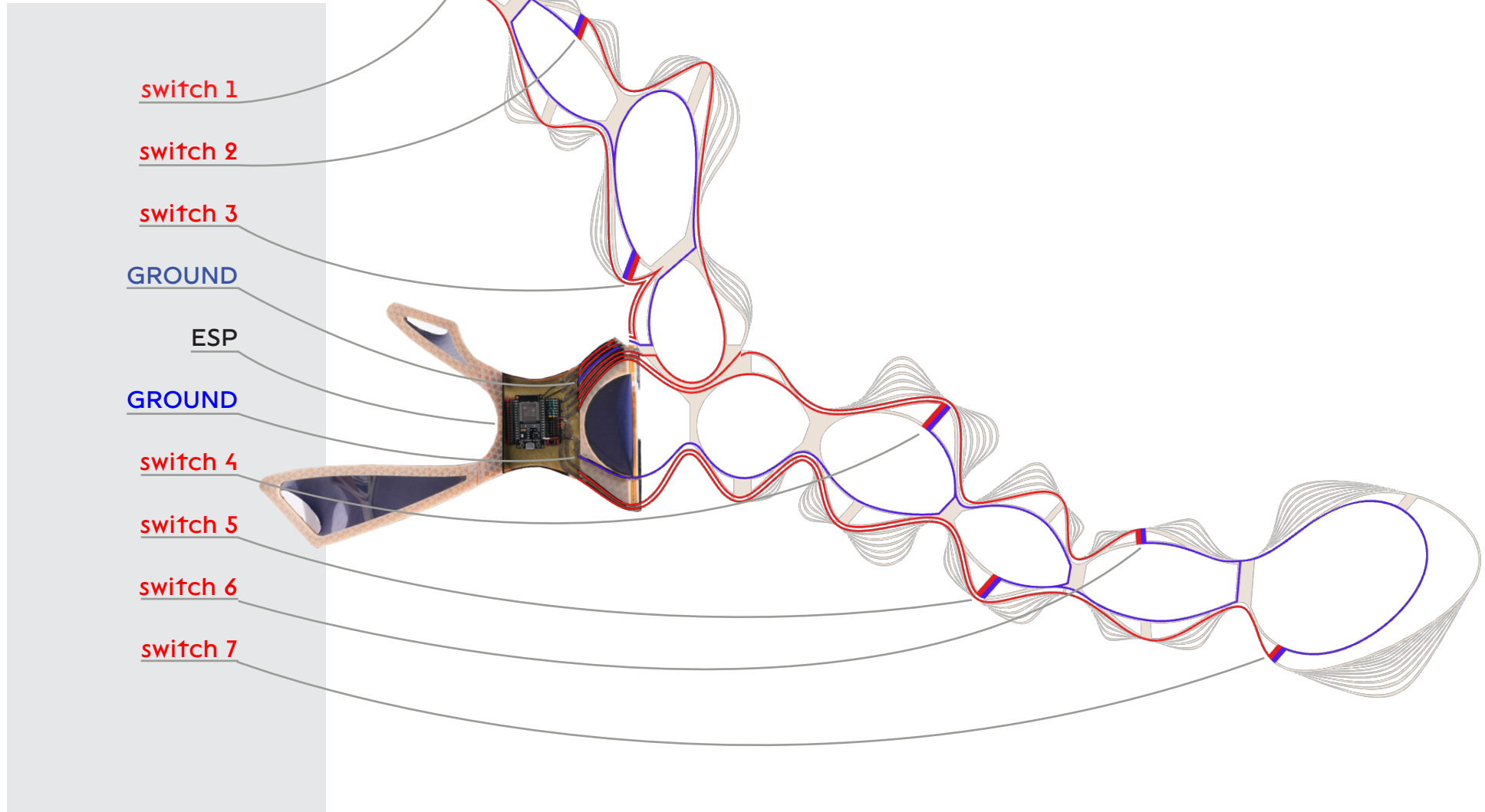
HINGE AS SWITCH



SENSORY



CONCEPTUAL CIRCUIT









singing switches

Antonia Dönitz

textile- & surface design

mentoring:

Prof. Mika Satomi

kunsthochschule
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in the framework of
Communicating Bodies

Berlin, Germany

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