

Portfolio

about me



I am product designer and jeweller. In my work I am focused on parametric design, communication, psychology and emotional design. I have experience with UX, photography web development and marketing as well as creating prototypes with typical and modern methods and classical jewellery techniques.



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EXHIBITIONS

2024 Art3um Námestovo, a solo exhibition of the Iridescent collection

2023 Bratislava design week, collection Samorast

2023 Milan Jewelry week

2023 National prize for design, collection Lamellae, collection Samorast

2023 Milan design week, collection Samorast

2022 Bratislava Design week, collection Lamellae

CONTACT



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Lokca/ Slovakia

EXPERIENCE



Monika Tomulcova studio, selfemployed

JUN 2020-PRESENT

Jewellery and lifestyle product studio focused on sustainability and selfsufficiency



Skoda auto a.s., Mlada Boleslav, design intern

NOV 2019- JUN 2020

Product development, product research, web page development, PR materials creation.



Tamalaca, Sassari, design intern

JUN 2018- SEP 2018

Creating graphic materials, social media management, photography, webpage development.



BEST Bratislava, PR manager

SEP 2017- SEP 2018

Managing PR team, managing PR campaigns and social media, promoting of organisation.

EDUCATION



Slovak University of Technology, design

SEP 2018- JUN 2020

Master of art degree



Nottingham Trent University, product design

SEP 2018- JUN 2019

Erasmus study



Slovak University of Technology, design

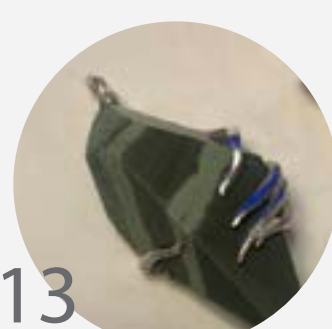
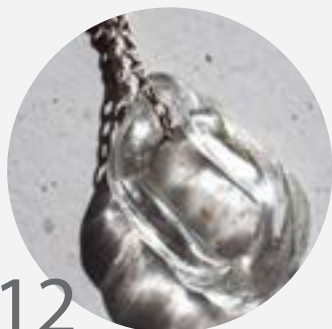
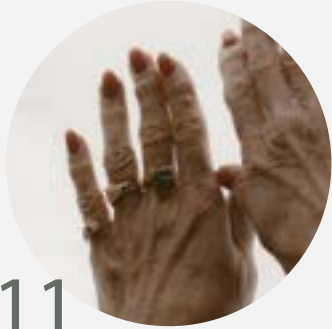
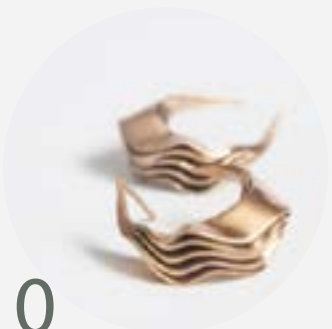
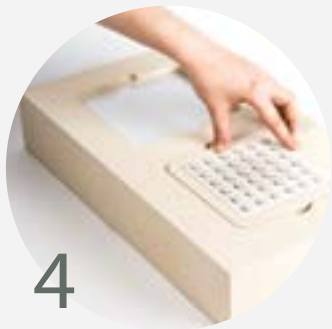
SEP 2014- JUN 2018

Bachelor degree

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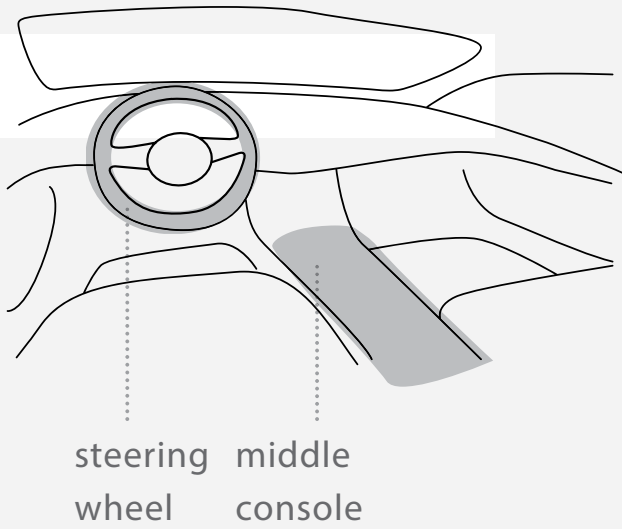
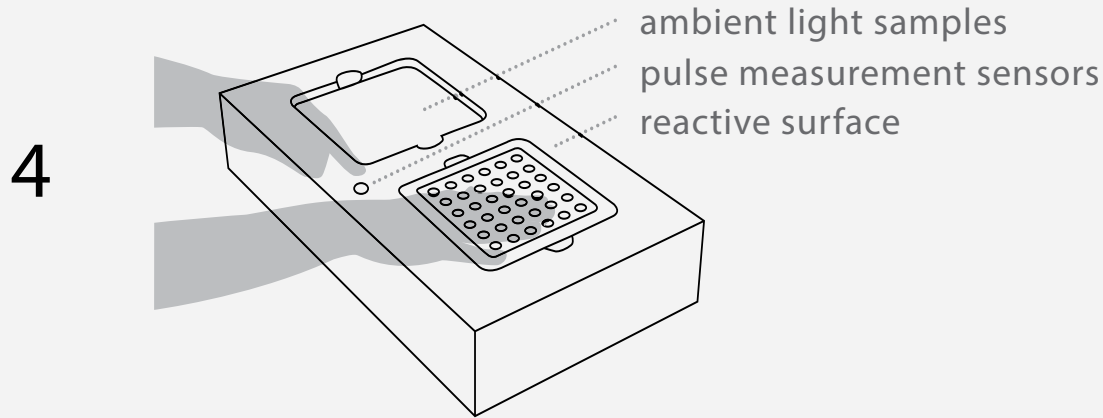
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React

React influence emotions of driver for his safer and more comfortable drive. Set of tactile structures and light filters, by change of movement, colour, material and shape are able to stimulate or calm you. Box serves as a test kit with changeable samples which measure pulse and change movement of the structures according to it. By graduate accelerating of movement we can achieve person pulse rise which make person more alert in situations in need of stimulating. Textures will be implemented on middle console and steering wheel.



	CALMING	STIMULATING
Material		
Shape		
Movement		
Colour		



Spojenie

Young people travel more and more often and fall in love with people living all over the world . They end up in a long distance relationship. They relationship is happening virtually. Spojenie is helping them navigate thanks to disguising smart technology into analogue watches that fight anxiety from being apart .

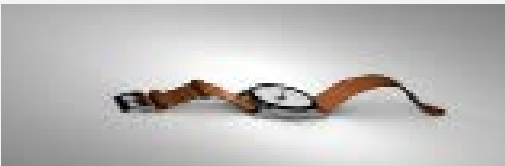
how it works

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Needle is always pointing in the direction of your significant one.

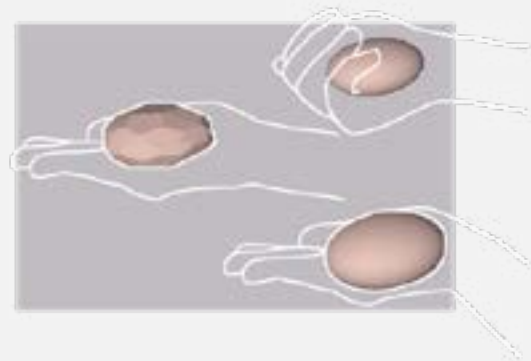
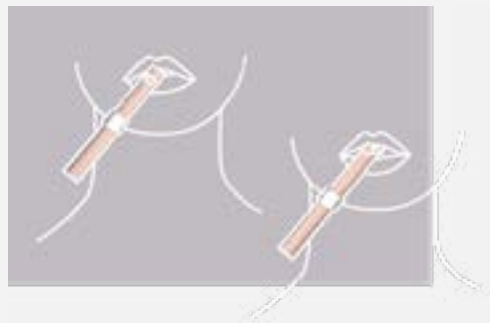
It automatically detect when you are in different time zones and shows you two hour hands. When you return to the same time zone, hands unify which is visible through colour effect and symbolise your unity.

Side button works as an instant connection. After its pressing, other person wearing watches gets vibration feedback and know that the person is thinking about him/her .



RIDU

70% of smokers try to stop yearly. Majority need 8 to 11 tries. During smoking cessation people meet with many psychological and physical problems. Ridu consists from 3 smart objects and app which try to respond to most jarring needs women have during phases of cessation.



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Necklace solves physical need to have something in the mouth and to bite.

Consist of magnetic ball and three rings. Ball fits between the rings and creates feeling of having something between two fingers, where a cigarette is usually held.

Third object is anti-stress foam polygon. The basic shape is a polygon, which thanks to the squeezing of the pump placed inside of it, changes to a smooth surface.



Rings work as visual and tactile reminder of decision of stopping smoking. Simultaneously it creates space for play. Ball can be rotated around rings to occupy nervous hands. Third ring serves for measurement of stress and for storing of the ball when not used.



Necklace is made from silicon and china ring for hygienic use and handling. Top part is a whistle which helps with deep breathing thanks to sensors and breathing exercises connected to an app.

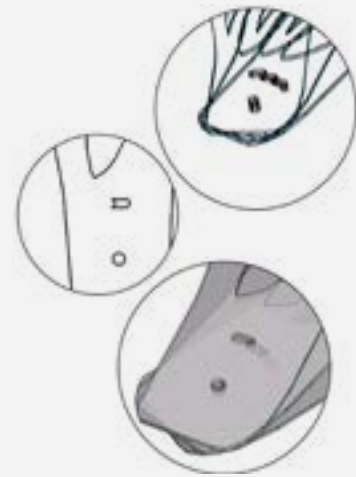


Time of polygon squeezing to its smooth form is similar to smoking of a cigarette. Polygon returns to its primary form when smart ring detects that we are in stress, or after time.

Hand fan

My first year studio work when the topic has been hand held object. In creation I have been inspired with peacock feather. Mechanism is based on each blades small pin fitting into next blades hole and so on, thanks to it fan gets open by exact angle without use of any additional material, also its ensure that fans open just one way.

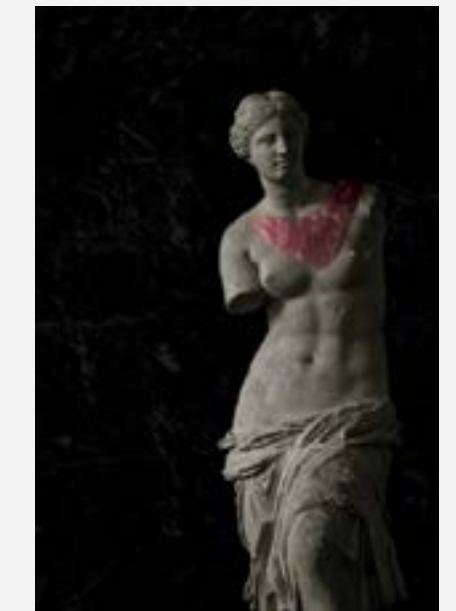
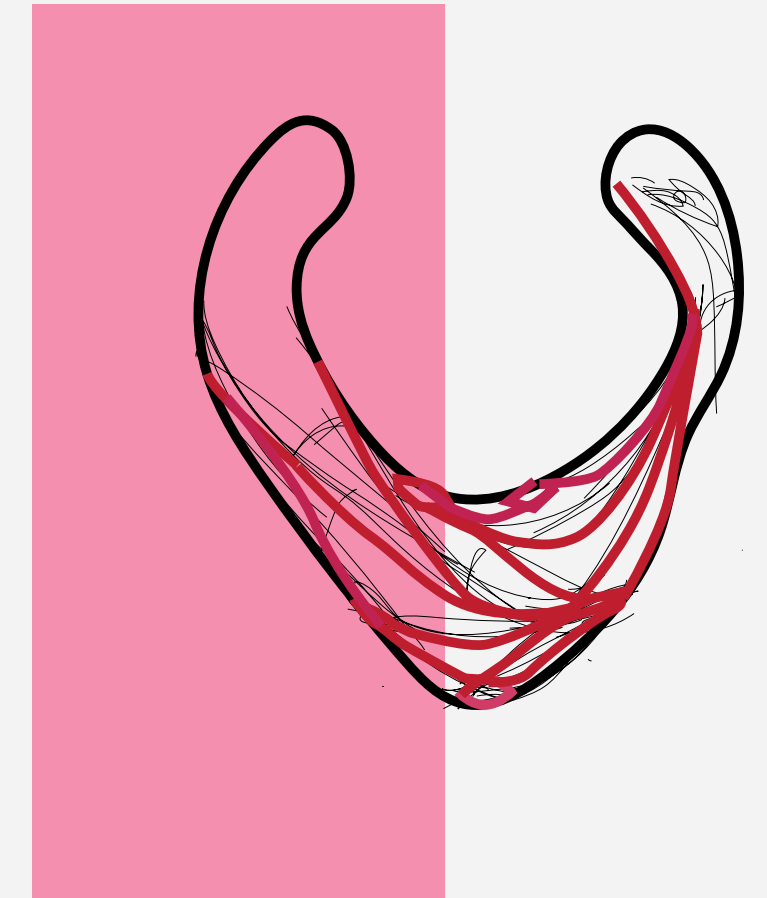
Does it make sense for today's conscious designer make as much frivolous design as fan? But if you are exposed to really hot weather you can appreciate it in spite of prejudices. I believe we can bring innovation to any object.



Tranquility

Anxiety is one of the most spread diseases among 20 something mostly woman. It is leftover after our ancestors whose life depended on it. Breathing is most authomatic function of the body. Neckace symulate calming pattern of breathing with its movement which make wearer synchronize her breathing with necklace. Because of thorax muscle shrinkage we feel during anxiety pressure on our chest. Gentle vibrations of necklase breathing, is hhelping in their releavition. Shape of the necklace is determined also by pressure points on the chest. Thanks to bulges positioned on the inside, we can easily stmulate them. For the visual perception I used Baker-Miller pink which is considered to be the most calming colour.

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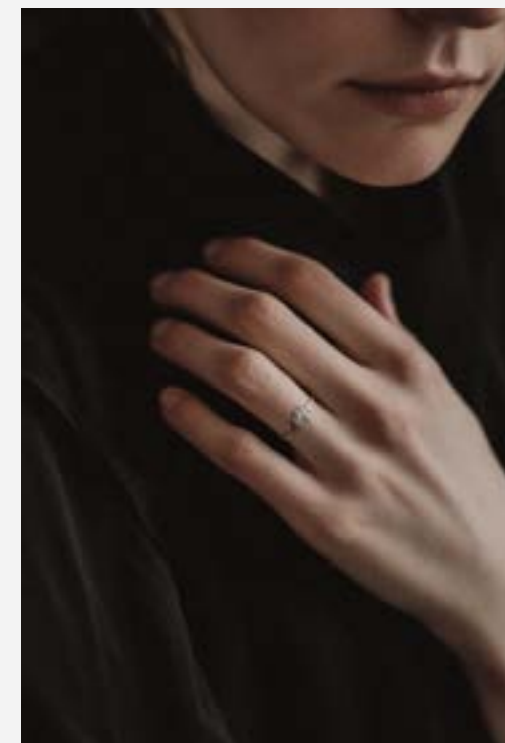
Botanica

Is a discovery and a celebration of basic goldsmithing techniques such as manual sawing of recycled brass sheet and soldering. Inspiration are shapes of exotic plants, botanical drawings and cut-outs of Henry Matisse. It is full of statement hanging and stud earrings.



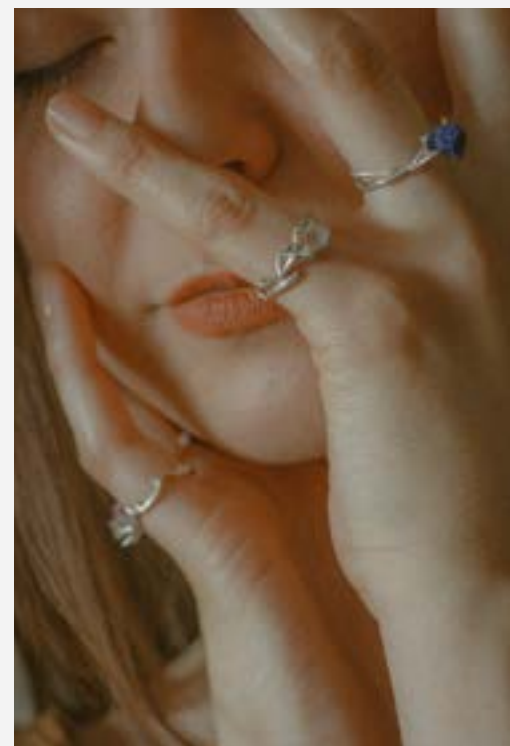
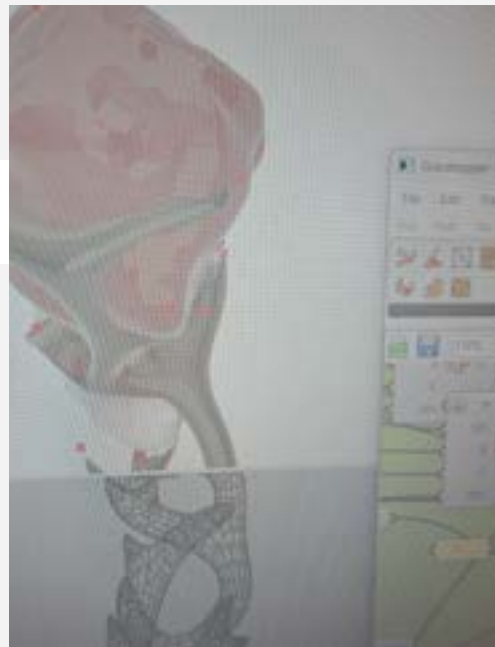
LAMELLAE

Collection Lamellae is inspired by mushroom gills, their uniqueness, adaptability, and fragility. Whole collection is designed in parametric program Grasshopper, that allowed creation of unique forms. From 3 different definition have been created more than 100 distinctive jewelry pieces, showing the possibility in using parametric modeling as innovative iterative tool for jewelry making. The process combines 3D printing technology with traditional hand-finishing. The jewellery pieces retain their natural appearance, even though they are designed through algorithmic parameters rather than direct or conventional 3D modelling. For pieces visual presentation have been created new methodology of using AI created models,



SAMORAST

The Samorast collection is inspired by growth, centred around a raw stone. Usually, cut stones are used in jewelry making, it allows to We use technologies such as 3D scanning, 3D printing, and parametric modelling to create these pieces. Using the parametric software Grasshopper, a unique piece of jewellery grows around the 3D-scanned raw stone, forming a secure setting for it. This transforms the traditionally time-intensive process of manually shaping wax around the raw stone, which takes several hours, into a process where the jewellery design is completed in just a few seconds. The piece is then 3D-printed, and cast, and the raw stone is set.



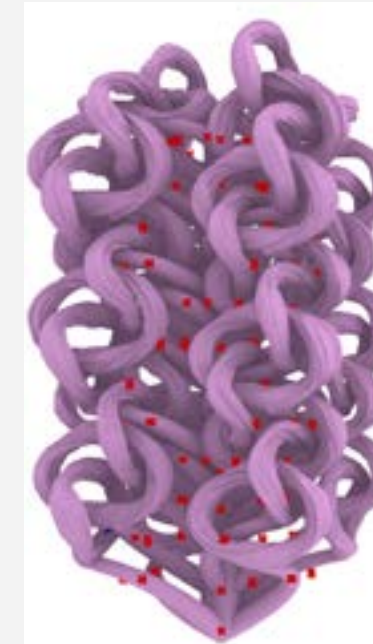
IRIDESCENT

The Iridescent collection is inspired by rippling and flowing movements and also iridescence—a natural phenomenon where light refracts, blends, and reflects on surfaces, creating a play of colours.

Glass is metastable; it is neither a liquid nor a solid, always existing somewhere in between. It can be cast, shaped, ground, and polished. The casting of glass from parametrically designed and 3D-printed jewellery models allowed for an exploration of glass as a medium for jewellery. The resulting jewellery collection interacts with the wearer's body, flowing across it and shaping itself to it.



3D model of the design



cast in place glass necklace



Oravský drahokam

Idea of the project came to me when I was walking through cart track. I found a lot of small green rocks that reminded me of my childhood. These rocks have been used as road gritting during winter and I have been an avid collector. Until the moment my parents told me that this material is a toxic waste. It is waste material from ferrous foundry production, where worked both my grandpa and my father.

Orava region is one of the most barren in Slovakia as it was once the bottom of the sea, so it is not possible to find any precious stones here. As this material has a lot of beauty I decided to explore it.

My main objective has been to find out if my whole home region is contaminated by this waste. If so, my plan has been to create unbreakable jewelry to highlight this problem. Thankfully all the environmental tests came out as OK and I could proceed to create jewelry from these stones. I cut them into facets and polished them, then the stones have been 3D scanned, inserted into Grasshopper definition inspired by flames, 3D printed and stones set.



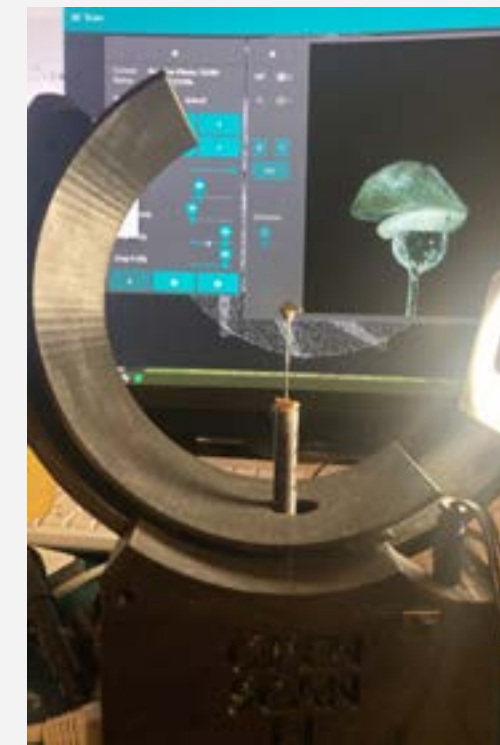
stones found in my village



faceted stones



3D model of the design



3D stone scanning



MONIKA TOMULCOVA 2025