

2021

# UPHOLD

Phone Accessory

Makenna Leese

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# Problem

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Have you ever considered how challenging it can be for people with limited hand function to use a smart phone to it full potential.

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# Concept

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Accessible and adaptive design that improves the experiences using a cell phone for people with limited hand function.



# Research

Cell phones provide access and enable people in the disabled community; however, it is not be the most convenient tool for people with limited use of one (or both) of their hands.

## Customer Persona: Mel



Mel is a passionate student who has limited use of her left hand due to left hemiparesis, cerebral palsy. She finds it inconvenient when she is completing tasks while using her phone- such as shopping for groceries with a list on the phone, because she cannot do both with one hand. She does not like how most adaptive products look sterile and unattractive.

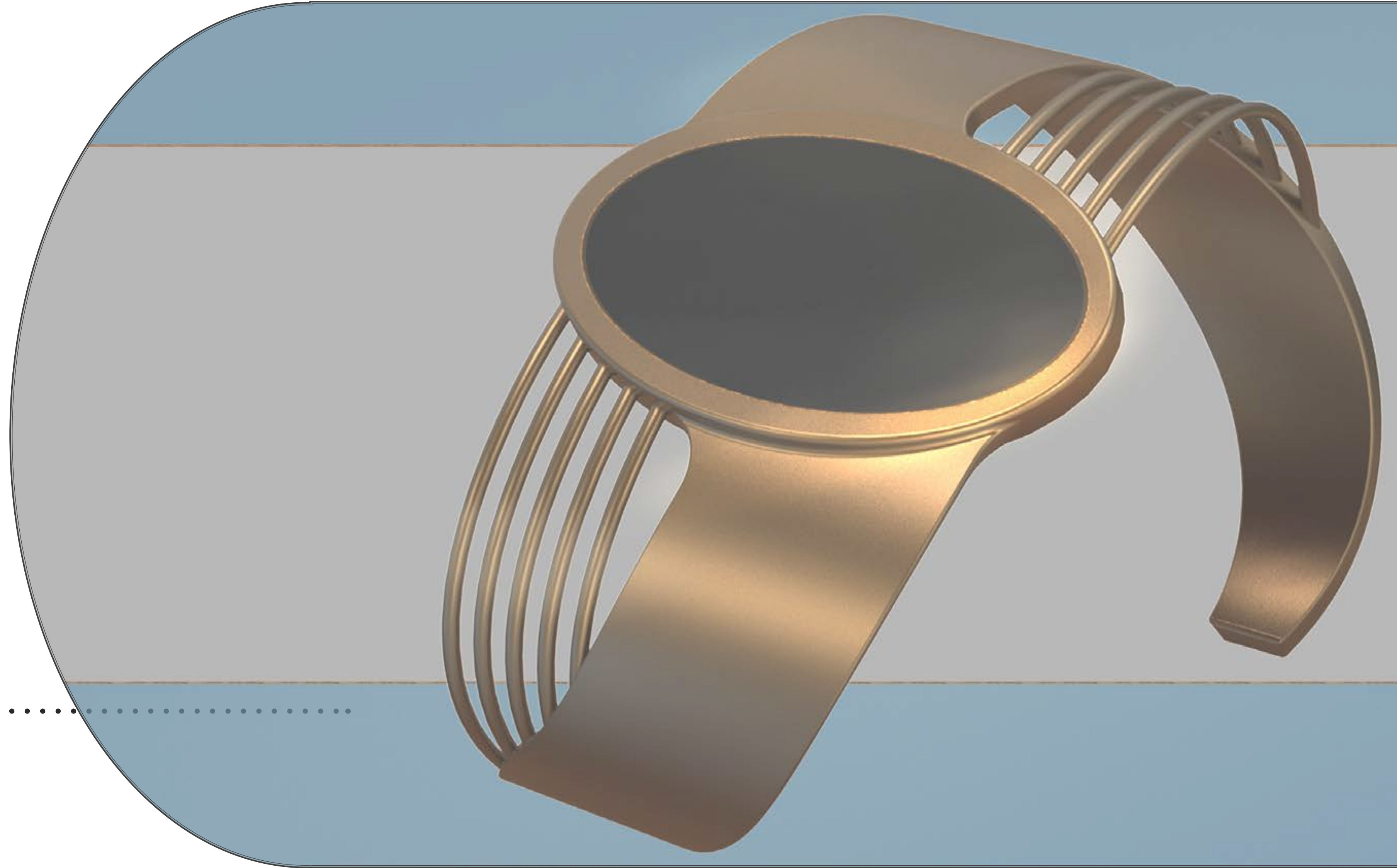
Age: 21

Gender: Female

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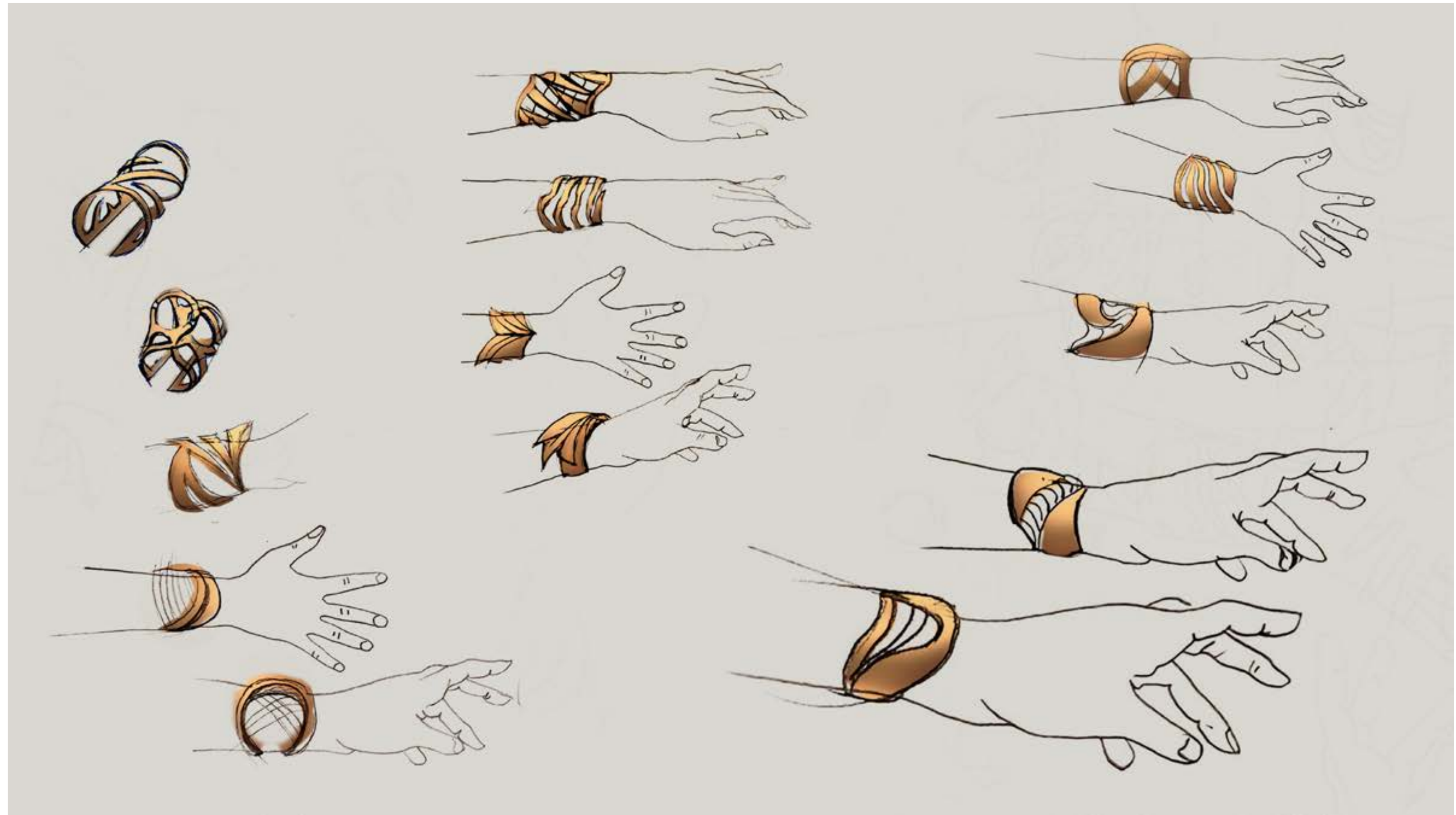
# UPHOLD

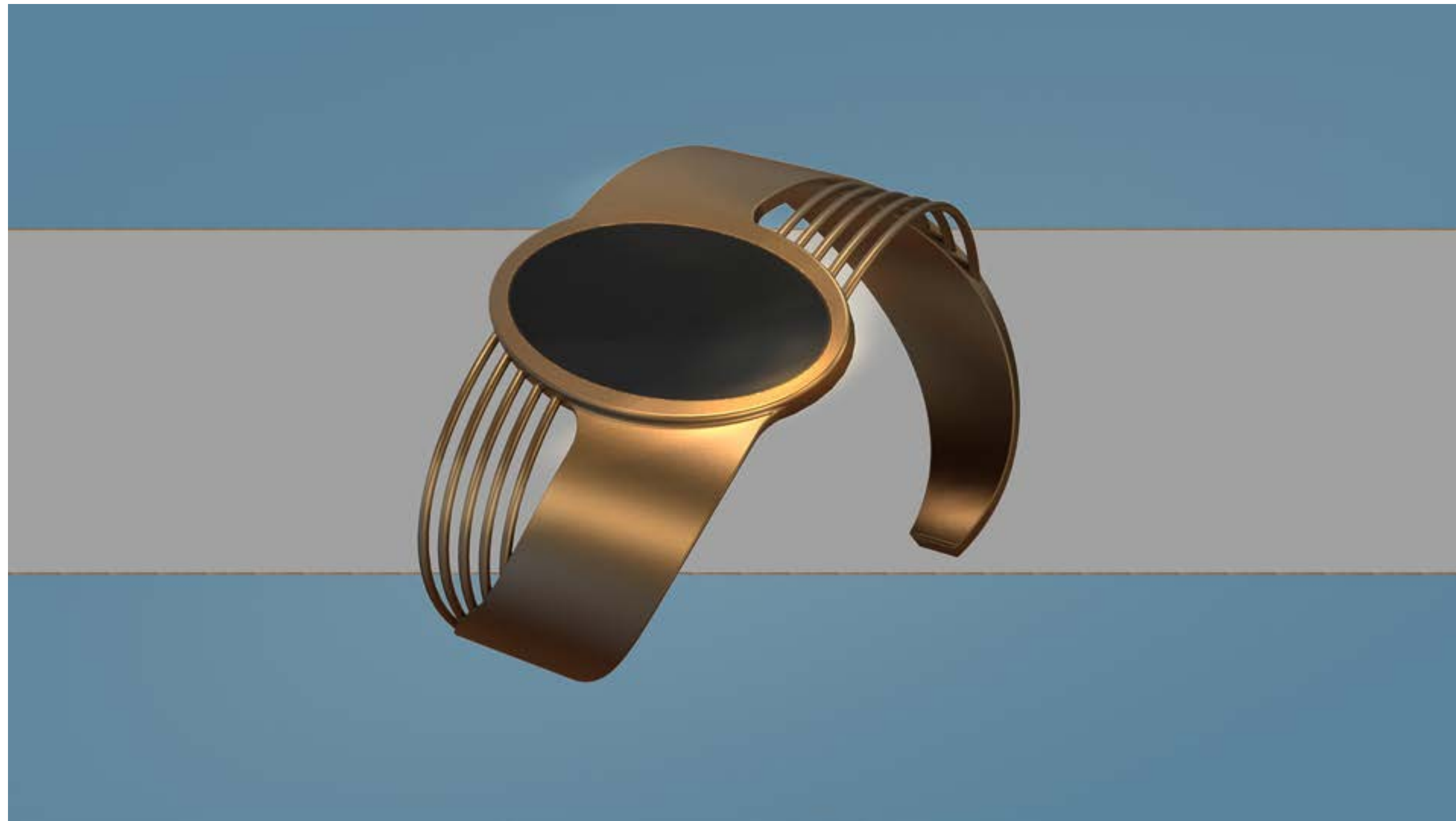
Phone Accessory



# Ideation

I was inspired by jewelry and sculpture. I explored the form through hand sketching and then further visualizing the forms by loosely rendering in Photoshop.





## Design Direction

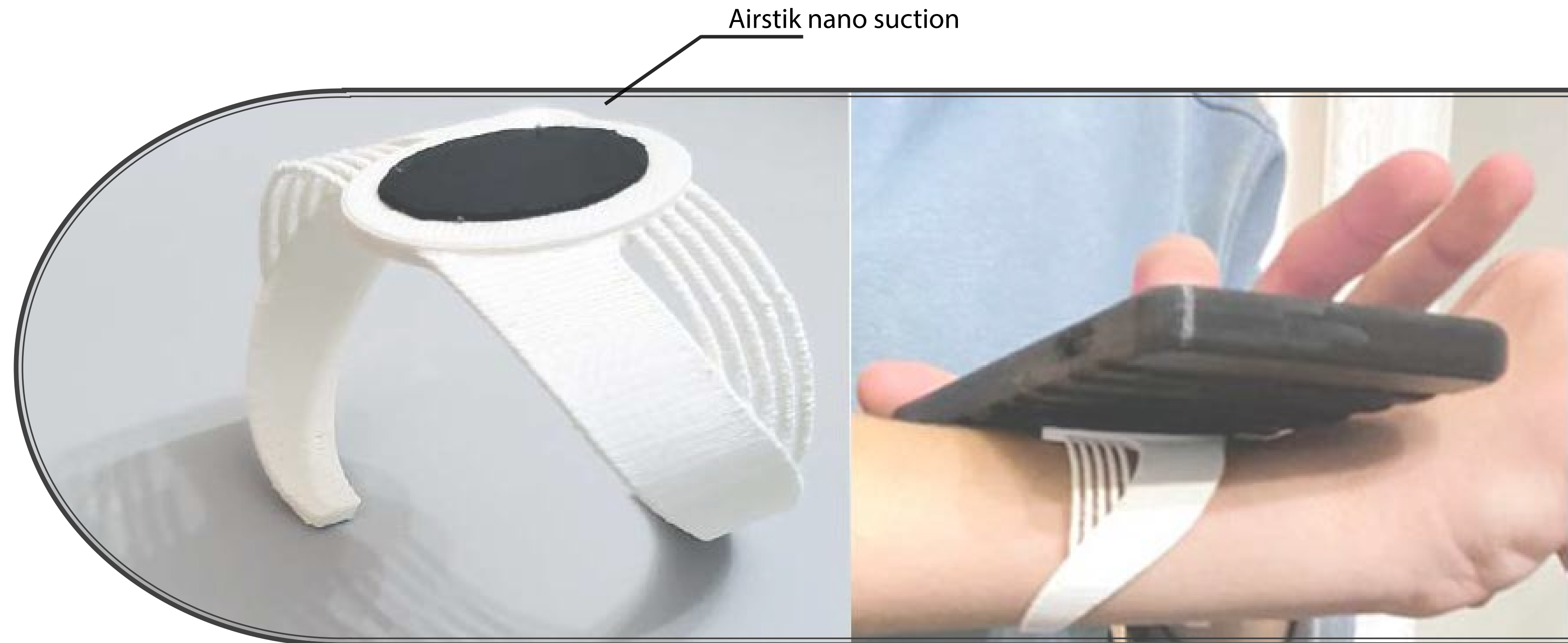
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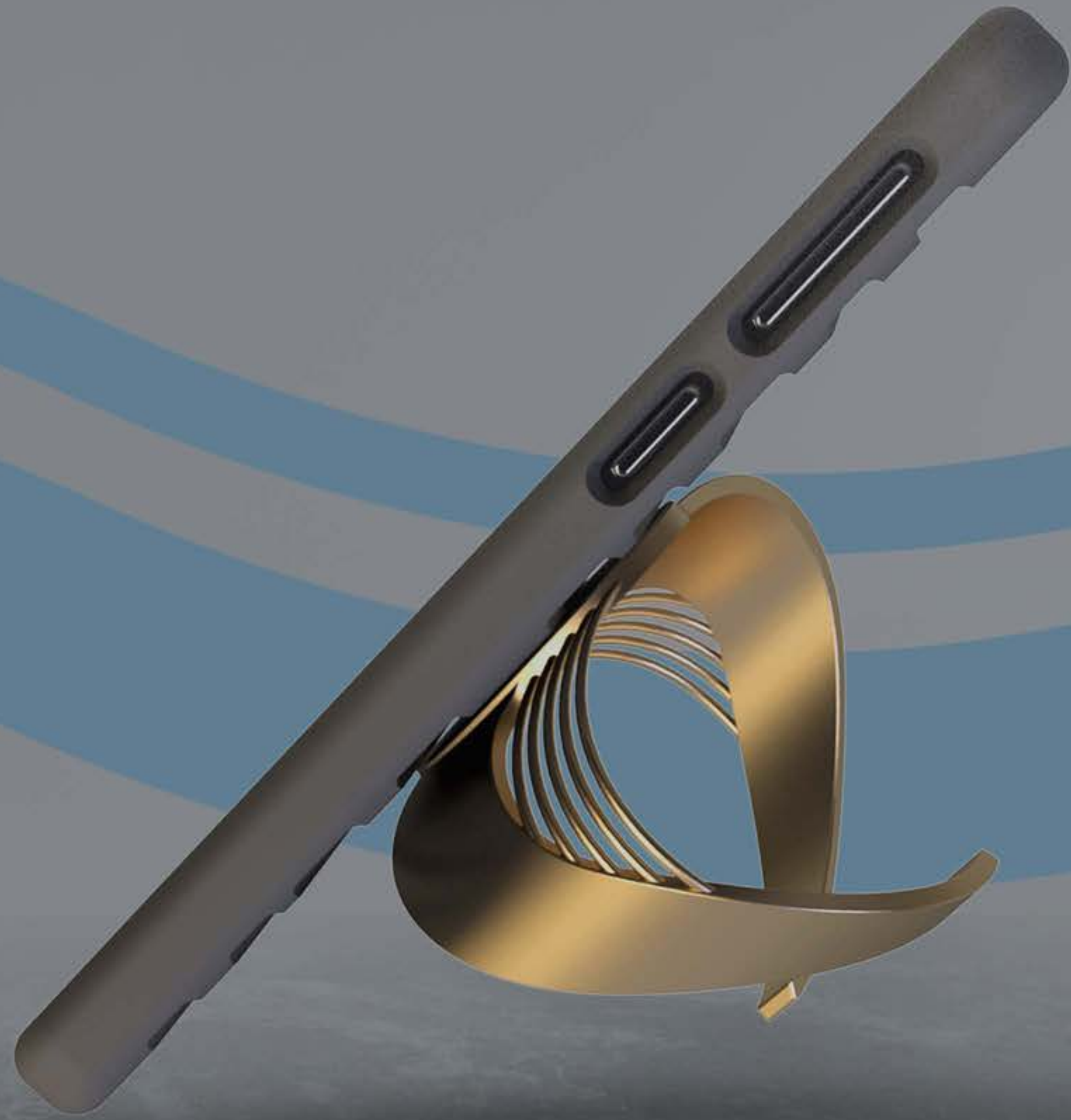
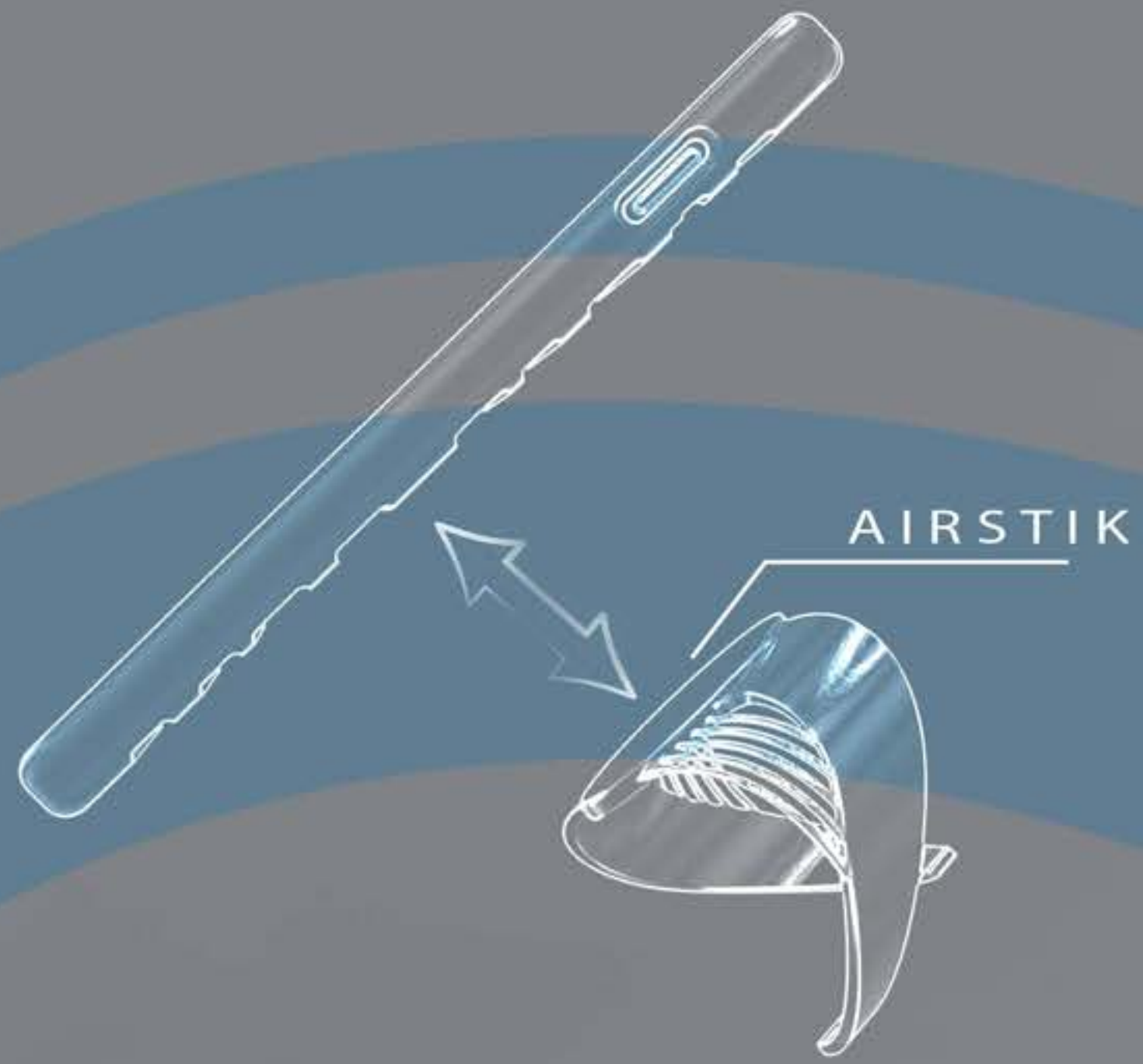
An attractive bracelet that easily attaches to your phone.

I went in the direction of a slip on (cuff like) bracelet, that does not require any closures.

# 3D Prototype

3D printed prototype with Airstik nano suction attached. The nano suction stripe works relatively well, however this part of the design is still under consideration. The Airstik nano suction cups that I used on the prototype was provided by Airstik's founder Joshua Stebbins.







***A wrist phone holder that  
is disguised as a bracelet.***





# About Me

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## Makenna Leese

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I am motivated to design products that enable people to achieve great things. I am currently a junior studying and developing my design skills as an industrial design major and a service design minor at the Savannah College of Art and Design. I am passionate about designing products that enable people to live independently with the confidence that they can accomplish tasks despite their challenges.

I was born with Right Hemiparesis, so I have limited use of my right arm and leg. Throughout my life, I have found a few helpful consumer products that have become great tools helping me complete certain tasks. I have learned and accepted the importance of being resourceful and unafraid to use objects and services to assist me. As a designer, my aspirations are to use my design skills and an awareness of the different needs of people, through my curiosity and research; to co-create products and services that are useful tools, allowing independence and easier access to opportunities. I am passionate about designing inclusive products, by learning from others, solving problems, and innovating through collaborative processes and my design knowledge. There is so much potential to improve products, systems and services for people through design and I am excited to be a creative problem solver.

## Skills

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Organized  
Adaptable  
Dependable  
Determined

Photoshop  
Rhino  
Solidworks  
KeyShot

Thank you

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