From dream to design.

Bring concepts to life with multi-material 3D printing.

stratasys

Dreaming great designs.

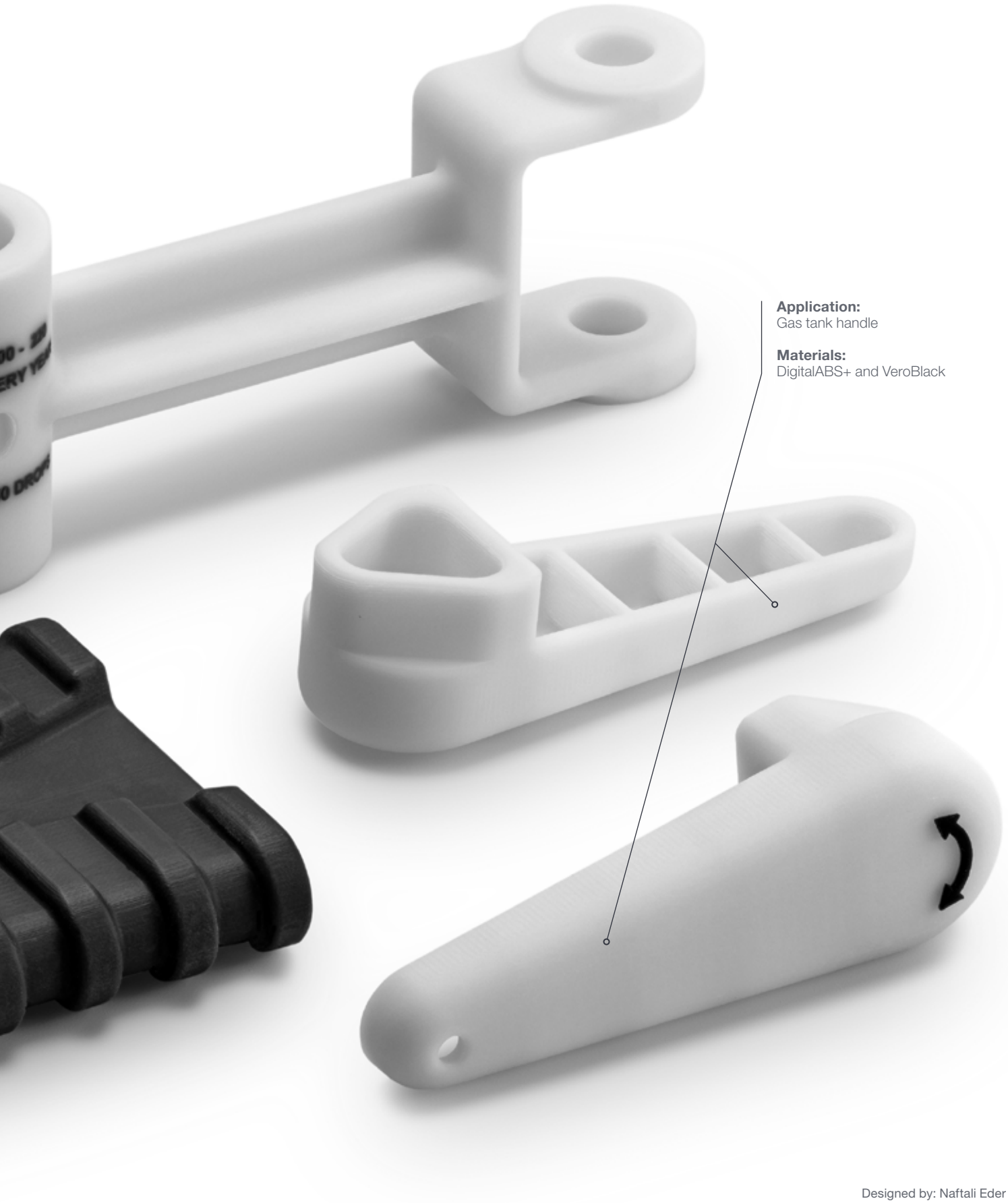
Great designs don't just happen — they take a lot of effort, planning and imagination to achieve. From concept validation and design verification to testing functional performance, using models in each stage of the design process can revolutionize a designer's work. And 3D prototypes relieve the pain, hasten the process and extend financial benefits at each stage.

Application:
Pivot connector

Materials:
DigitalABS+ and VeroBlack

Application:
Assembly jig fixture

Materials:
Agilus30 Black™
(soft touch) coating on
a Vero (rigid) core



Application:
Gas tank handle

Materials:
DigitalABS+ and VeroBlack

Designed by: Naftali Eder

Application:
Automotive door panel

Materials:
DM Vero Black Plus and Vero PureWhite™

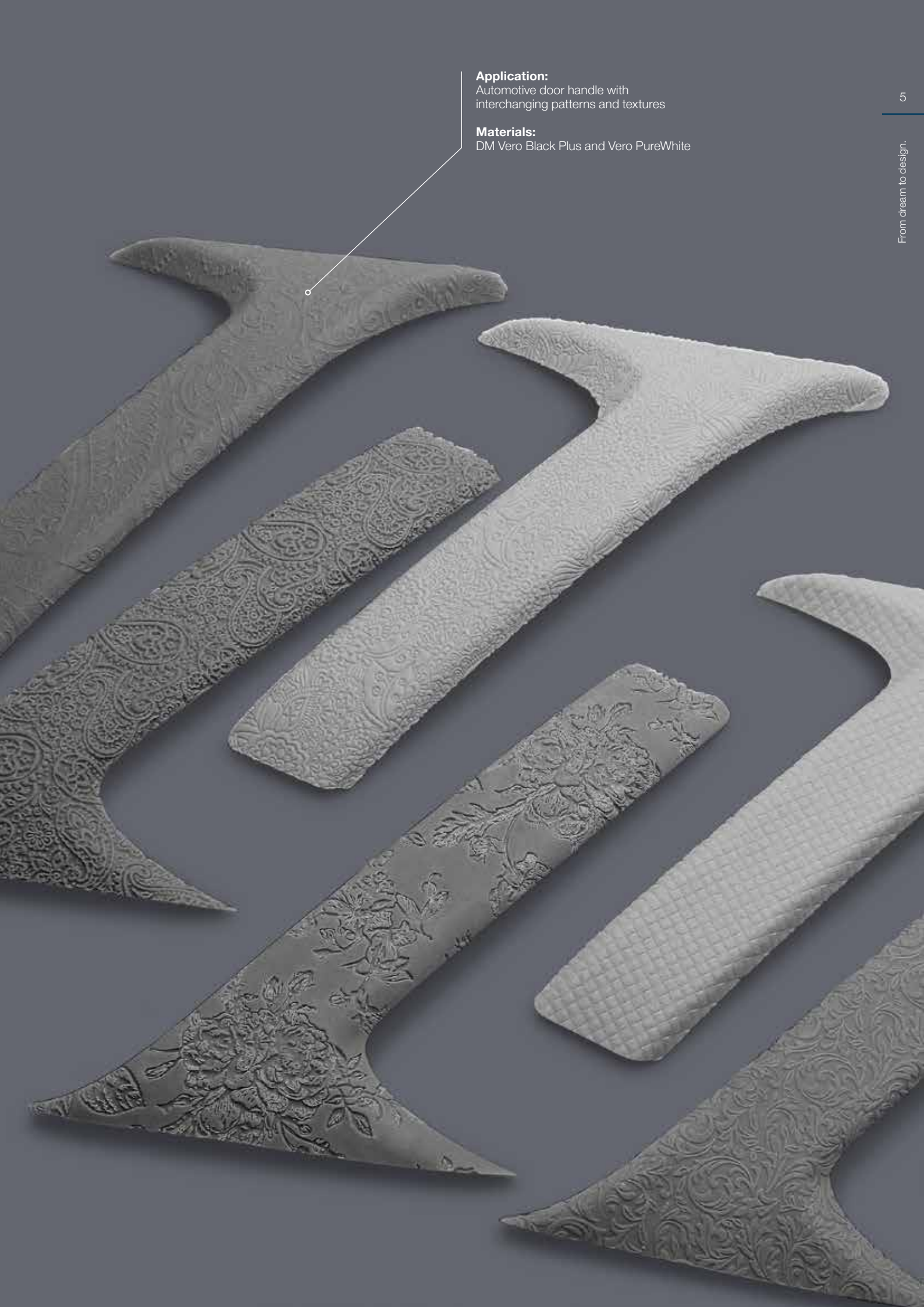
Initial form design by Mr. Singh with modification and textures added by Naftali Eder.

Where it all starts: concept validation.

Proof of concept modeling is a fundamental step in the development process. It allows the designer to go from drawing to actual visualization — bringing true innovation to life. For example, automotive designers and engineers gain the ability to design and test relatively large parts in different textures and patterns with increased efficiency and creativity. You can also watch your client's excitement unfold as they hold, touch and examine accurate models from all angles. Plus, see how a tangible prototype can facilitate the decision-making processes while lowering costs, increasing client buy-in, trust and confidence.

Application:
Automotive door handle with interchanging patterns and textures

Materials:
DM Vero Black Plus and Vero PureWhite

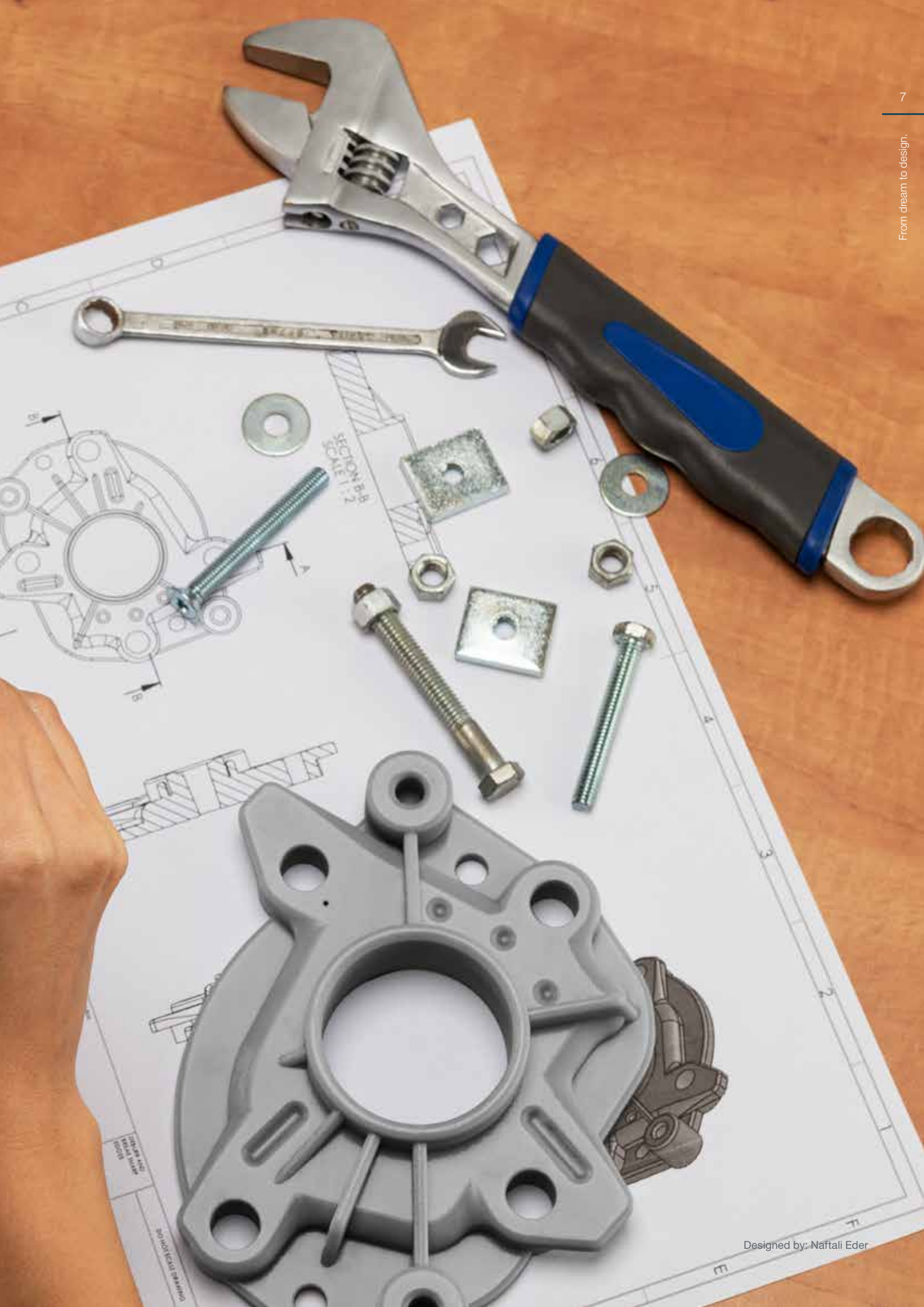


Dedicated design verification.

While concept validation determines if you've selected the right design, design verification helps determine if you are building the design optimally. This key step enables the designer to spot flaws early in the process and consider design improvements that mitigate unnecessary costs down the road. This is a cost-efficient stage that ensures the final result represents theinnovation and professional outcomes clients seek.

Application:
Pump housing

Materials:
DraftGrey™



Designed by: Naftali Eder

Application:
Digital thermometer

Materials:
Vero PureWhite,
VeroBlackPlus™
and Vero Clear

Fully functional by design.

Design is not only about how a project looks — it's also about whether the product works. Functional performance testing aims to ensure that each product withstands every possible condition the user may encounter. And with 3D modeling's shortened time and cost efficiencies, it is easier and cheaper to concentrate on functional testing opportunities. Designers can find potential issues that could affect the overall performance of a system and improve them quickly — and within budget.

Designed by: Naftali Eder

Start redesigning the realms of possibility.

Draw inspiration from designers who have embraced texture, transparency, color and more with PolyJet™ technology and explore the nearly endless possibilities of multi-material, full-color 3D printing.

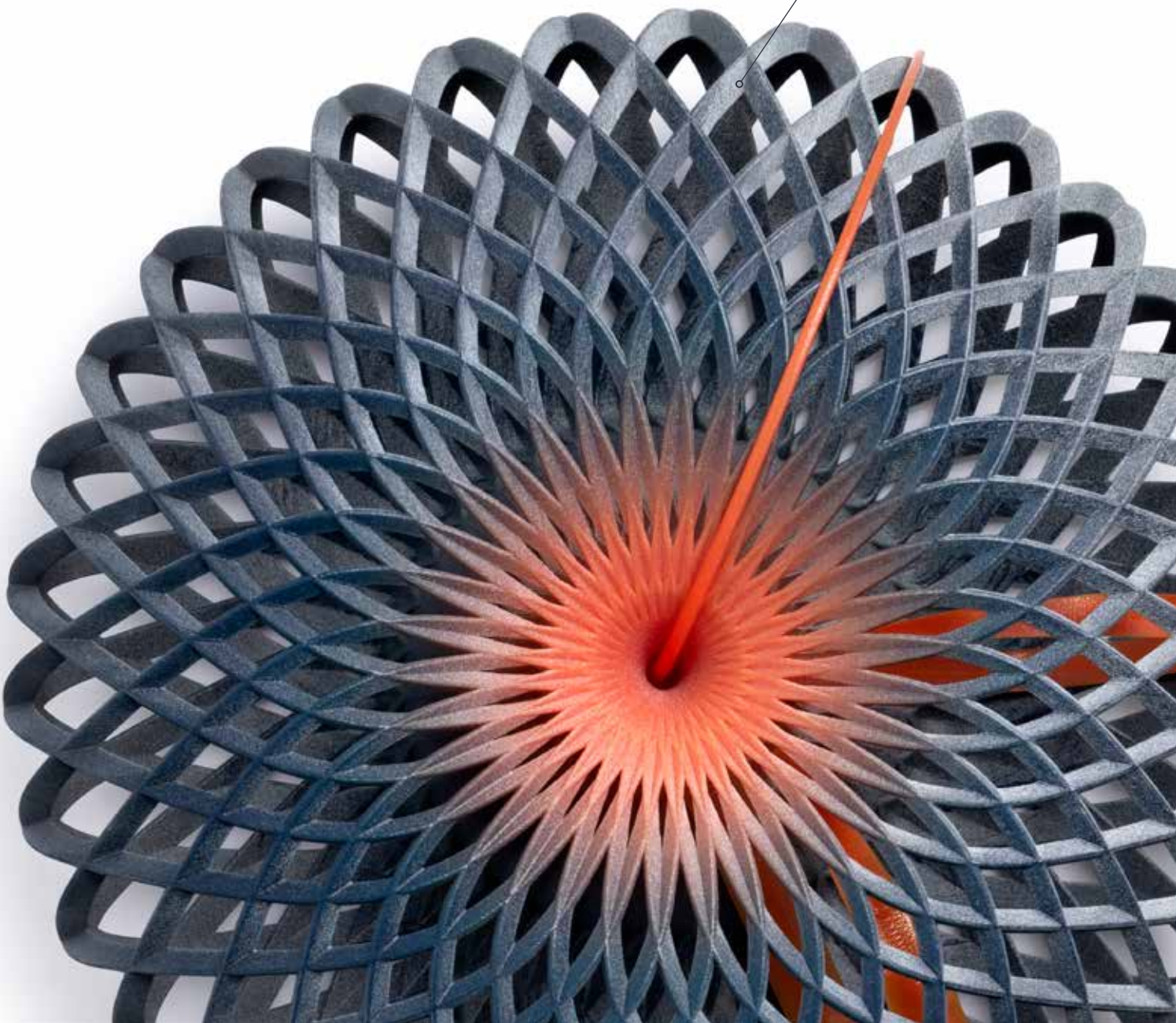
3D Printed Model
Designed by: Lior Elgali

Geometry of time.

Capturing the complexities of geometry and the intricacies of time, this dynamic clock design was transformed from imagination to reality with multi-material 3D printing.

Application:
Functioning prototype

Materials:
VeroVivid™, SUP706B™



Designed by: Matan Zrihen

Shining a light on realism.

Incorporating texture, realistic detailing and PANTONE® color matching, this flashlight was 3D printed in four easy-to-assemble parts with perfect accuracy and tolerances.

Application:
Consumer product prototype

Materials:
VeroUltraClear™, VeroVivid,
Vero PureWhite

Designed by: Naftali Eder

Application:
Product redesign

Materials:
VeroUltraClear, VeroVivid,
Vero PureWhite

An easy arrangement.

Mimicking the appearance of blown glass and featuring individual tubes to help a person create the perfect botanical arrangement, this vase is a prime example of how 3D printing can be used to reinvent a common household item.

Designed by: Mika Siponen

The design of engineering.

Housing a complex system of colorful gears and mechanisms in a clear casing allowed for part differentiation, observation and handling without the risk of damage. These motor and gear box assemblies were also created in a single 3D print.

Application:
Mechanical assemblies

Materials:
VeroUltraClear, VeroVivid, Vero PureWhite, VeroBlackPlus™

Designed by: Naftali Eder

Seeing renders in reality.

Innovating at the speed of trends requires fast design. These 3D printed eyewear prototypes were used to quickly explore combinations of color and texture as well as test wearability before landing on the final, trendsetting look.

Find out how other designers use color, textures and patterns in fashion.

Lifelike texture

KeyShot® material
render swatches

Application:
CMF Prototype

Materials:
VeroFlexVivid™, VeroBlackPlus

Designed by: Lior Elgali

Encircled in color.

When it comes to any accessory, look, fit and feel are critical. And by 3D printing a wearable prototype, design details like size, shape and color combinations can all be tested to create that perfect statement piece.

See how color can change the way you 3D print.

Application:
User testing, exact-match marketing model

Materials:
VeroVivid, VeroUltraClear

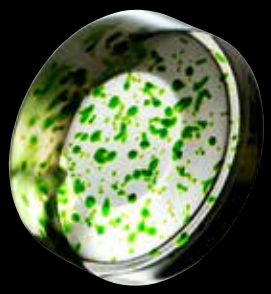
Designed by: Naftali Eder

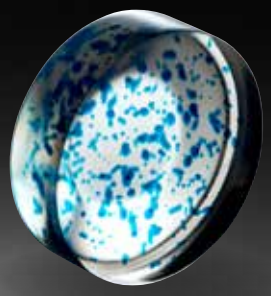
Featured in lights.

When designing lighting, using glass in the early design stages is not always possible. So to achieve optimum illumination, 3D printing and transparent materials are key for concept and aesthetic exploration.

Application:
Lighting Model

Materials:
Vero PureWhite,
VeroVivid,
VeroUltraClear



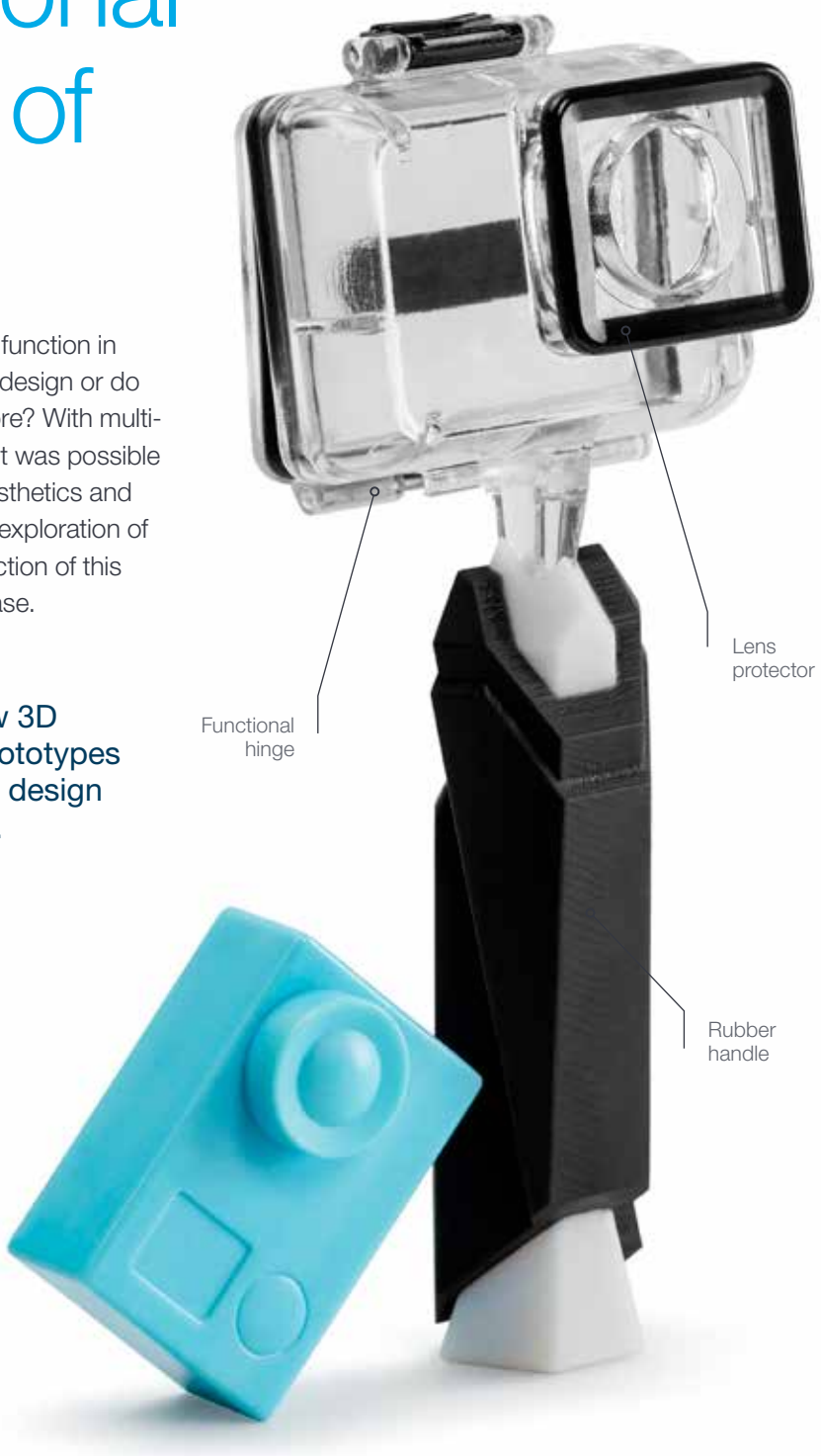


Designed by: Naftali Eder

A functional point of view.

Does form still follow function in the world of product design or do aesthetics matter more? With multi-material 3D printing, it was possible to design for both aesthetics and usability through the exploration of color, shape and function of this on-the-go camera case.

Learn how 3D printed prototypes fuel faster design decisions.



Application:
Functional prototype

Materials:
VeroUltraClear, VeroCyanV™, Vero PureWhite, VeroBlackPlus, Digital ABS™, Agilus30 Black

Designed by: Naftali Eder

Application:
Delicate, detailed models

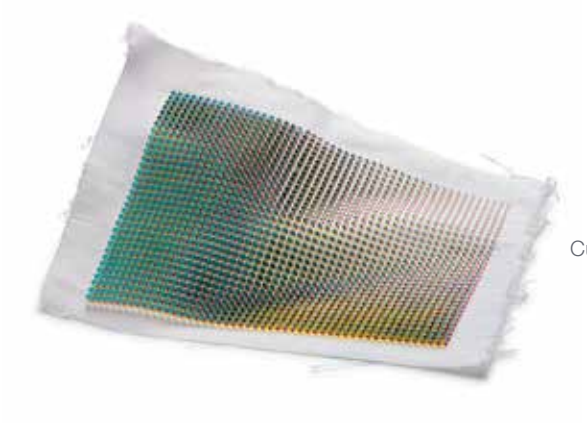
Materials:
VeroUltraClear, VeroVivid,
Vero PureWhite, VeroBlackPlus

Still life.

Transparent 3D printing materials allow enough light to pass through so that objects, colors, textures and fragile details safely contained within can be seen clearly. They can also be used to simulate glass or test functionality and aesthetics.

Discover other inspiring and impossible 3D materials.

Design from: Microsoft 3D Library



Application:
Art and fashion

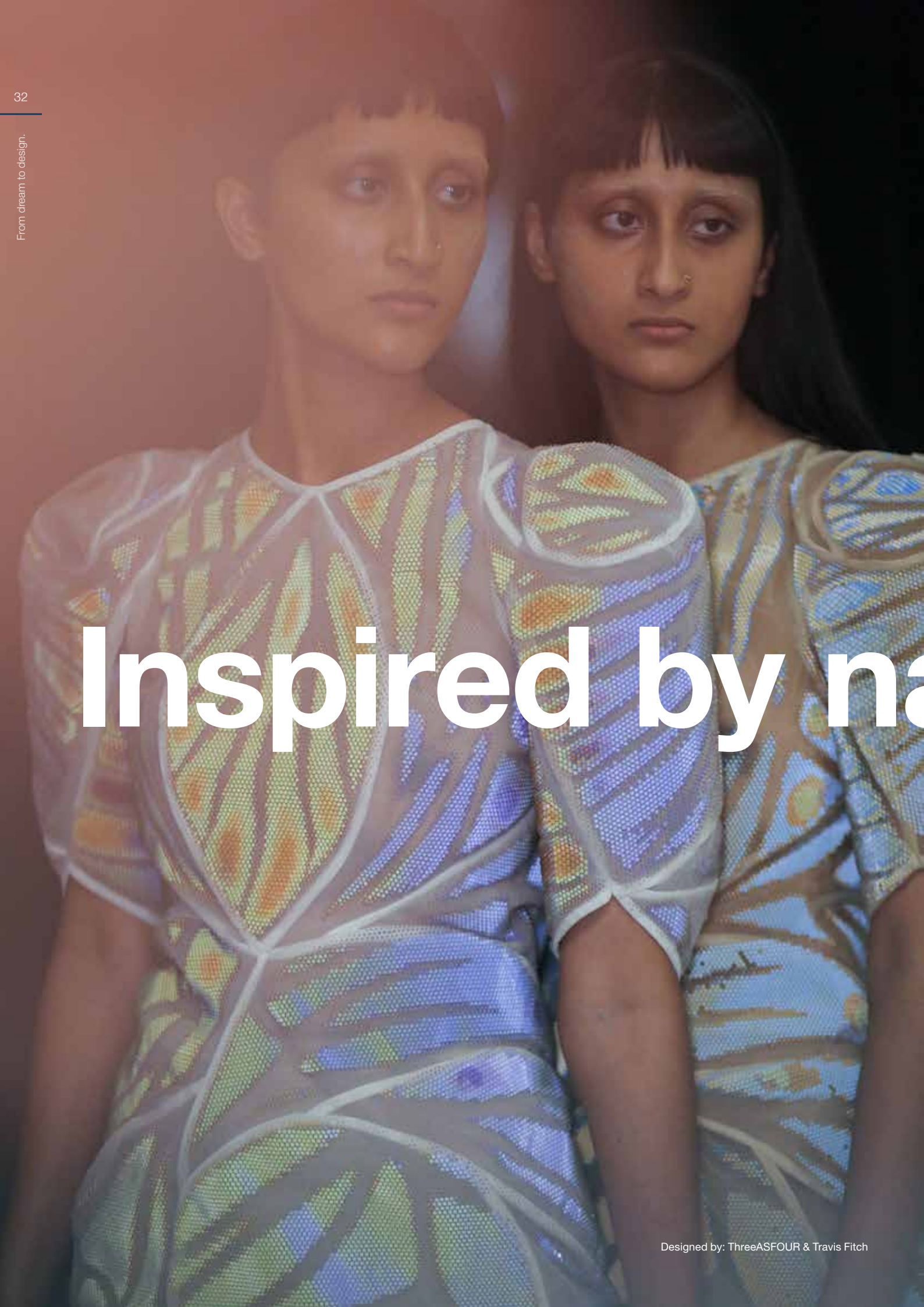
Materials:
VeroUltraClear,
VeroVivid,
Vero PureWhite,
VeroBlackPlus,
Custom VoxelPrint
materials

Inspired by natural design.

In a design inspired by the microscopic colors and light filtering of an insect's wings, photopolymers were 3D printed directly onto fabric in a first-of-its-kind approach. A reminder that innovation is limited only by imagination.

Watch the Chro-Morpho Collection come to life.

Designed by: ThreeASFOUR & Travis Fitch in collaboration with Stratasys



Inspired by na

Designed by: ThreeASFOUR & Travis Fitch

atural design.

The full package.

Create more than a thing — create an experience. Using multi-material 3D printing, this packaging design demonstrated how the right mix of colors, parts and graphics could be used to create the ideal unboxing experience.

Watch the unboxing of this true-to-scale packaging model.

Application:
Packaging

Materials:
VeroUltraClear,
VeroVivid,
Vero PureWhite

Designed by: Nadia Zinger Wagshall

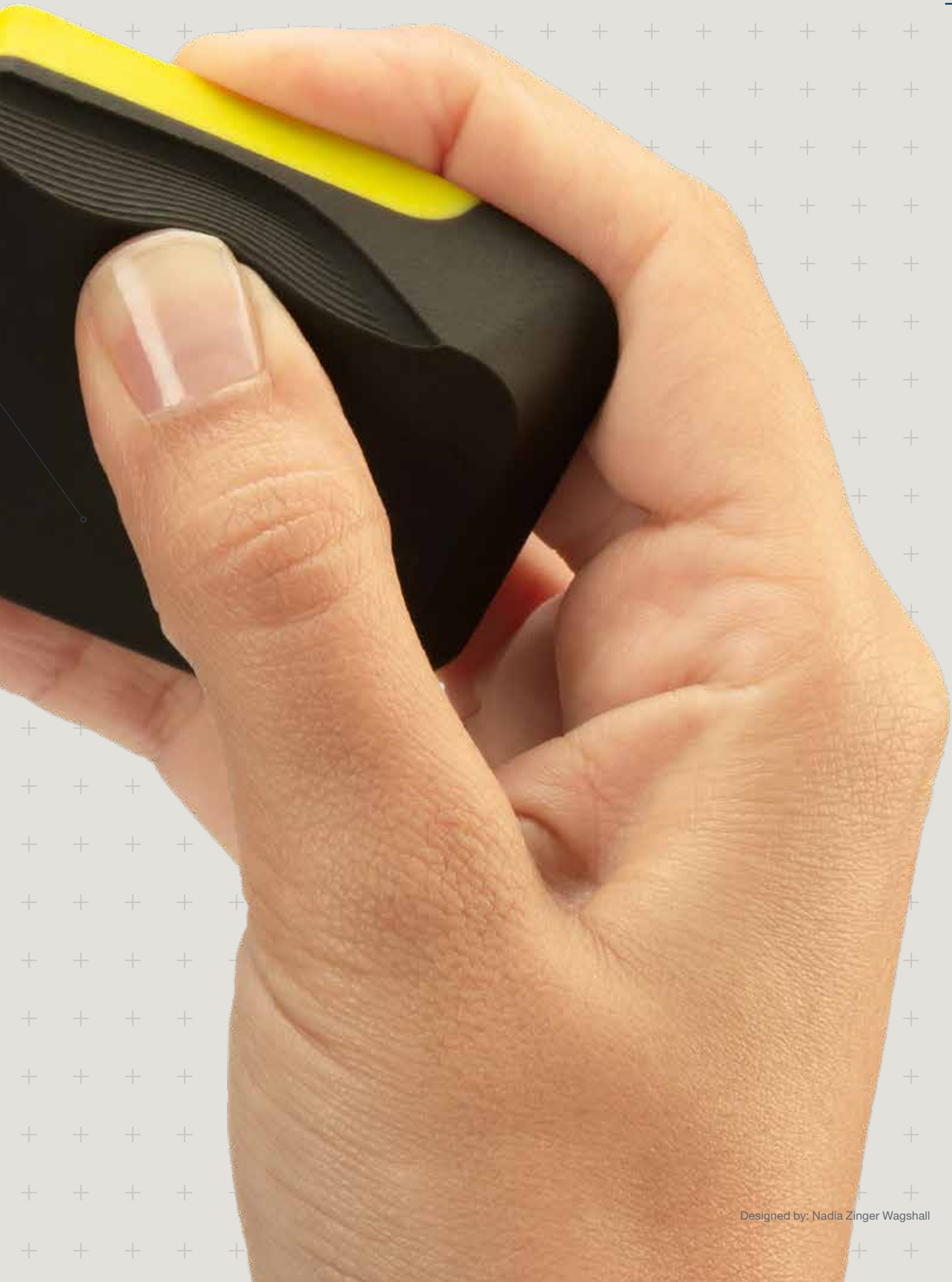
Application:
Prototype

Materials:
VeroVivid,
Vero PureWhite,
VeroBlackPlus,
Agilus30 Black

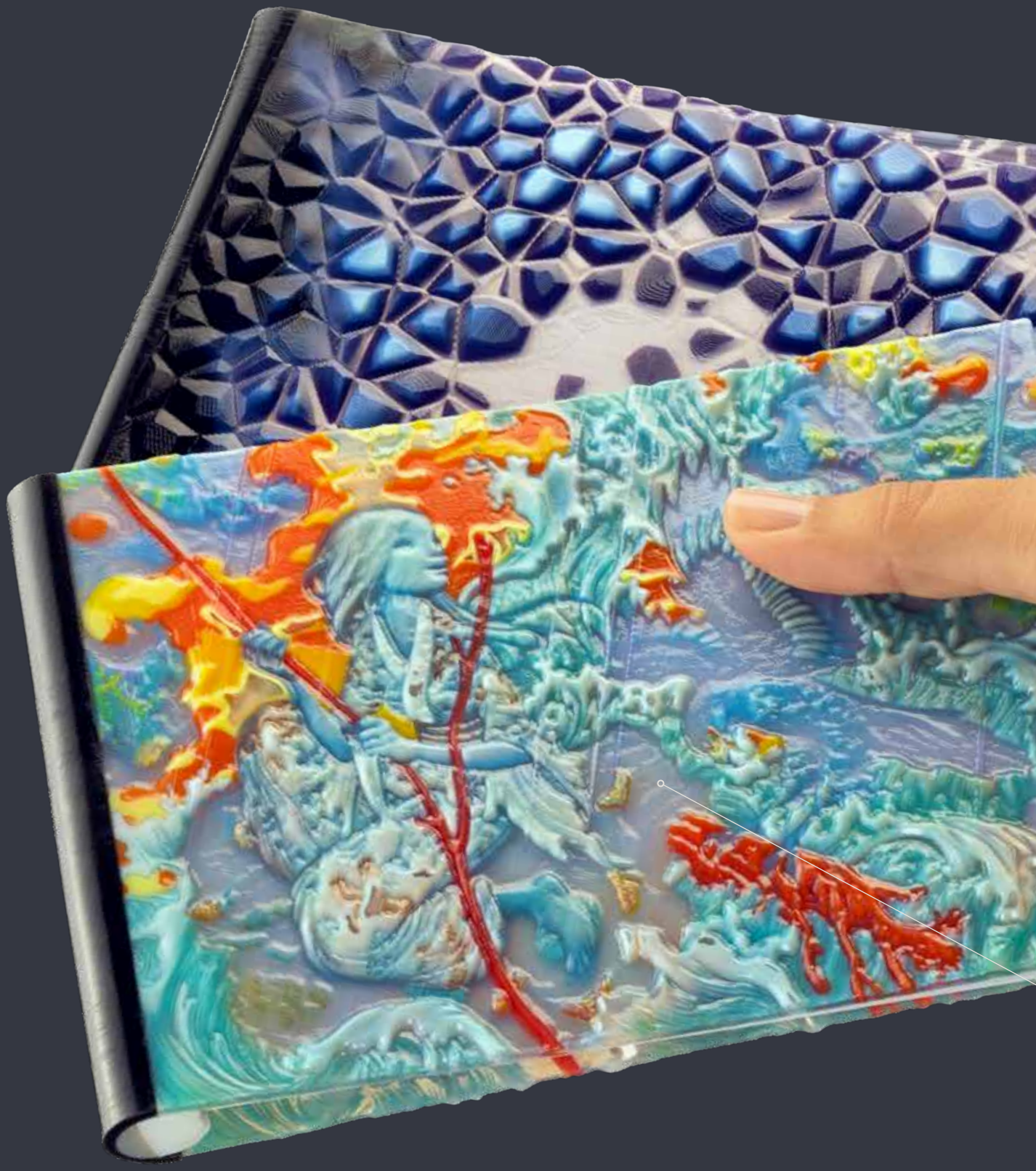
Flexible listening.

Create designs that respond to touch. Using multi-material 3D printing, this earbud case prototype was designed to test real-life functionality and explore elements of flexibility.

Discover how you can make your prototypes flex.



Designed by: Nadia Zinger Wagshall



Ideas of note.

Just imagine what you could make. Bound by no design limits, these notebook covers explore CMF and the creative possibilities of multi-material 3D printing including color, transparency and texture.

Application:
Creative capability

Materials:
VeroUltraClear, VeroVivid, Vero PureWhite, VeroBlackPlus, Agilus30 Black, Digital ABS

Designed by: Julian Zeuner

The shift in evolution.

From concept to end result, design is an evolution of stages. This gear shifter prototype demonstrates the 3D printing process from fast draft, single-material concept to exploring leather textures, woodgrains and stitched details and selecting a final design.

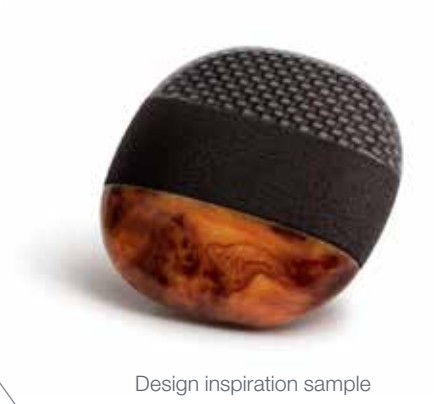
Find out how other designers use color, textures and patterns in fashion.

Concept model

Sketch model

Application:
Automotive interior trim design

Materials:
DraftGrey, VeroUltraClear, VeroVivid,
Vero PureWhite, VeroBlackPlus, Agilus30™

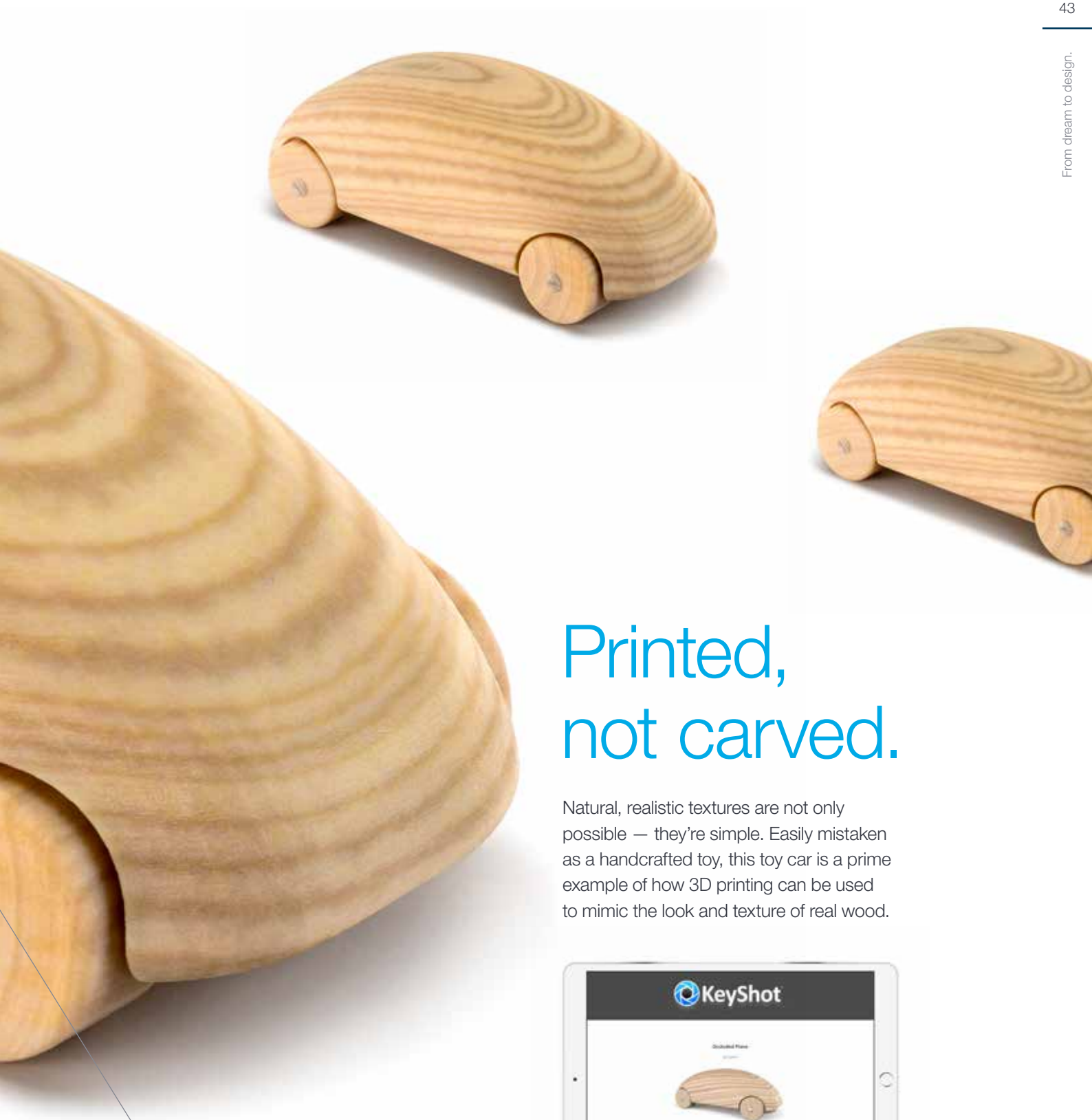


Design inspiration sample

3-color model

Final, full-color model

Designed by: Lior Elgali



Printed, not carved.

Natural, realistic textures are not only possible — they're simple. Easily mistaken as a handcrafted toy, this toy car is a prime example of how 3D printing can be used to mimic the look and texture of real wood.

Application:
Render-to-print model

Materials:
VeroVivid

See how easy it is to go from render to print.

Designed by: KeyShot®

Application:
Concept model

Materials:
VeroUltraClear, VeroVivid,
VeroBlackPlus, Vero PureWhite

Let concepts take flight.

Achieve detail and design clarity. Creating the illusion of butterflies in flight, this perfume bottle prototype was produced in a single print using a glass-like material and vivid, full-color details.

Designed by: Gilli Kuchik and Ran Amitai

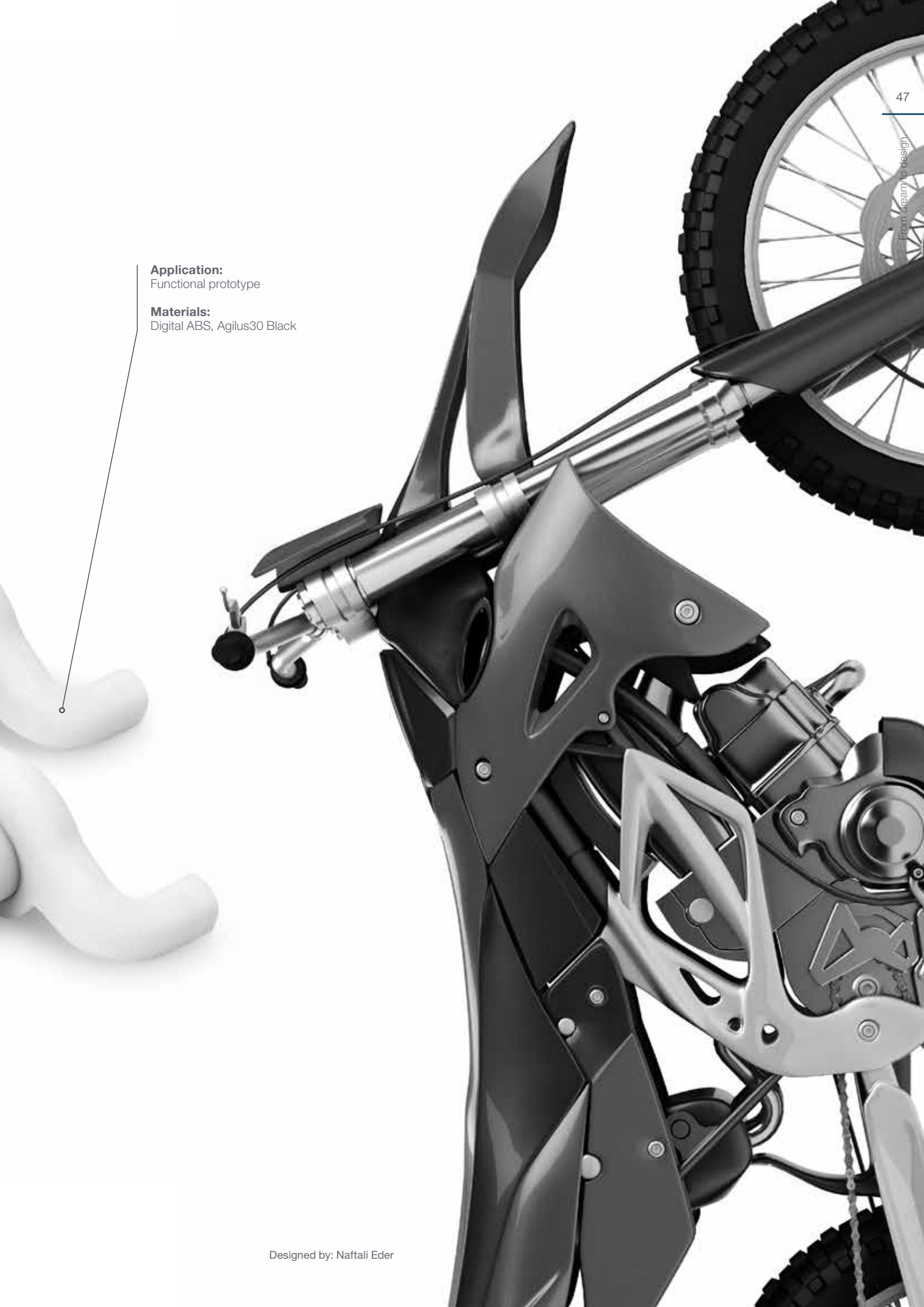
Hit the throttle.

The ability to make faster decisions drives design forward. Replicating the look and feel of rubber, these throttle assembly prototypes were used to rapidly test strength, durability, flexibility and grip before landing on a final design.

Find out how you can create flexible, rubber-like designs.

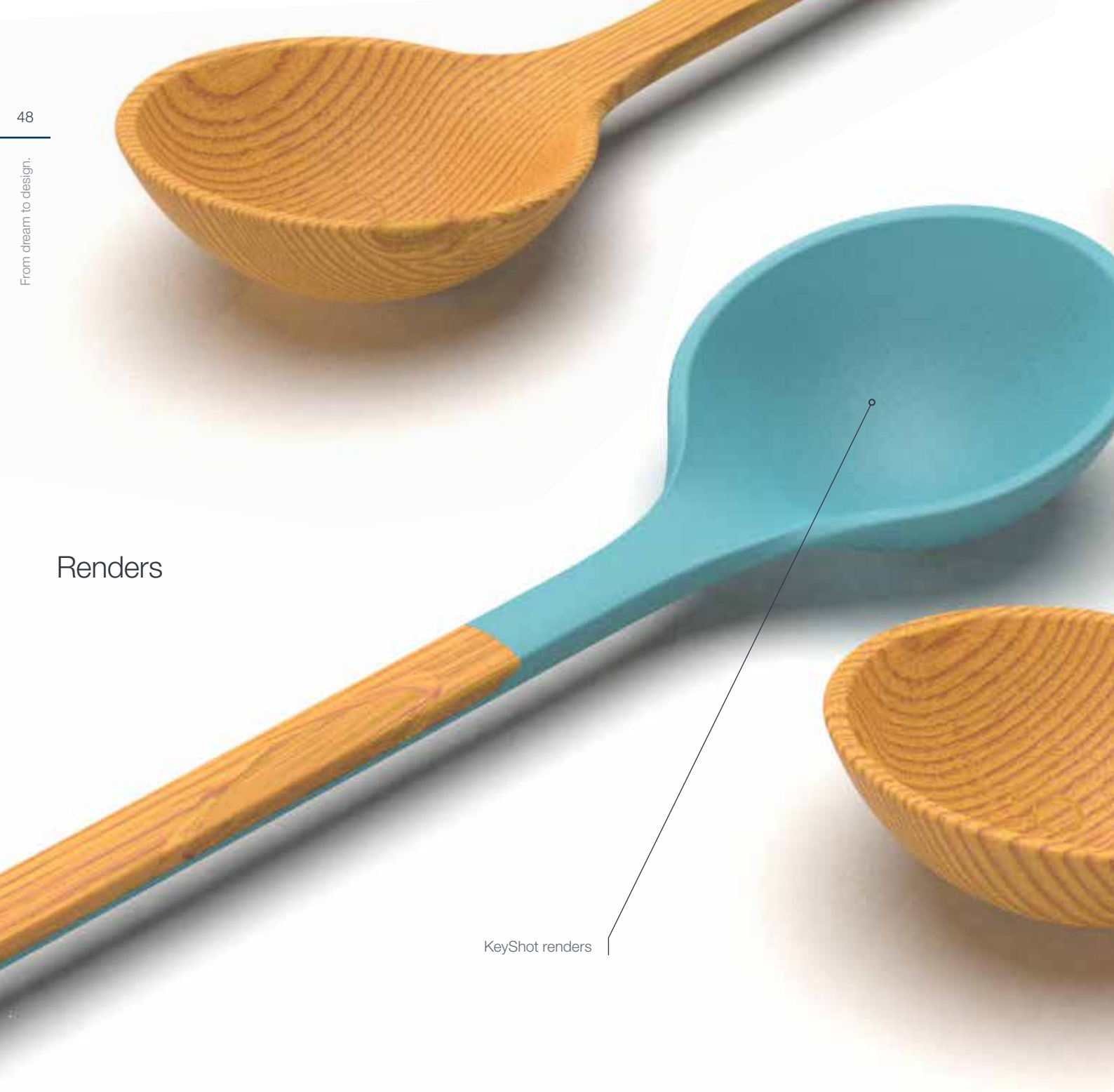
Application:
Functional prototype

Materials:
Digital ABS, Agilus30 Black



Designed by: Naftali Eder

Renders



Serving up color.

It's all about achieving the right balance of design elements. Taking this serving spoon from render to print was the ideal way to test out the functionality, vivid color combinations and wood grain patterns that would be featured in the final product.

Watch how you can refine your designs faster.

3D printed reality

Application:
Render-to-print prototype

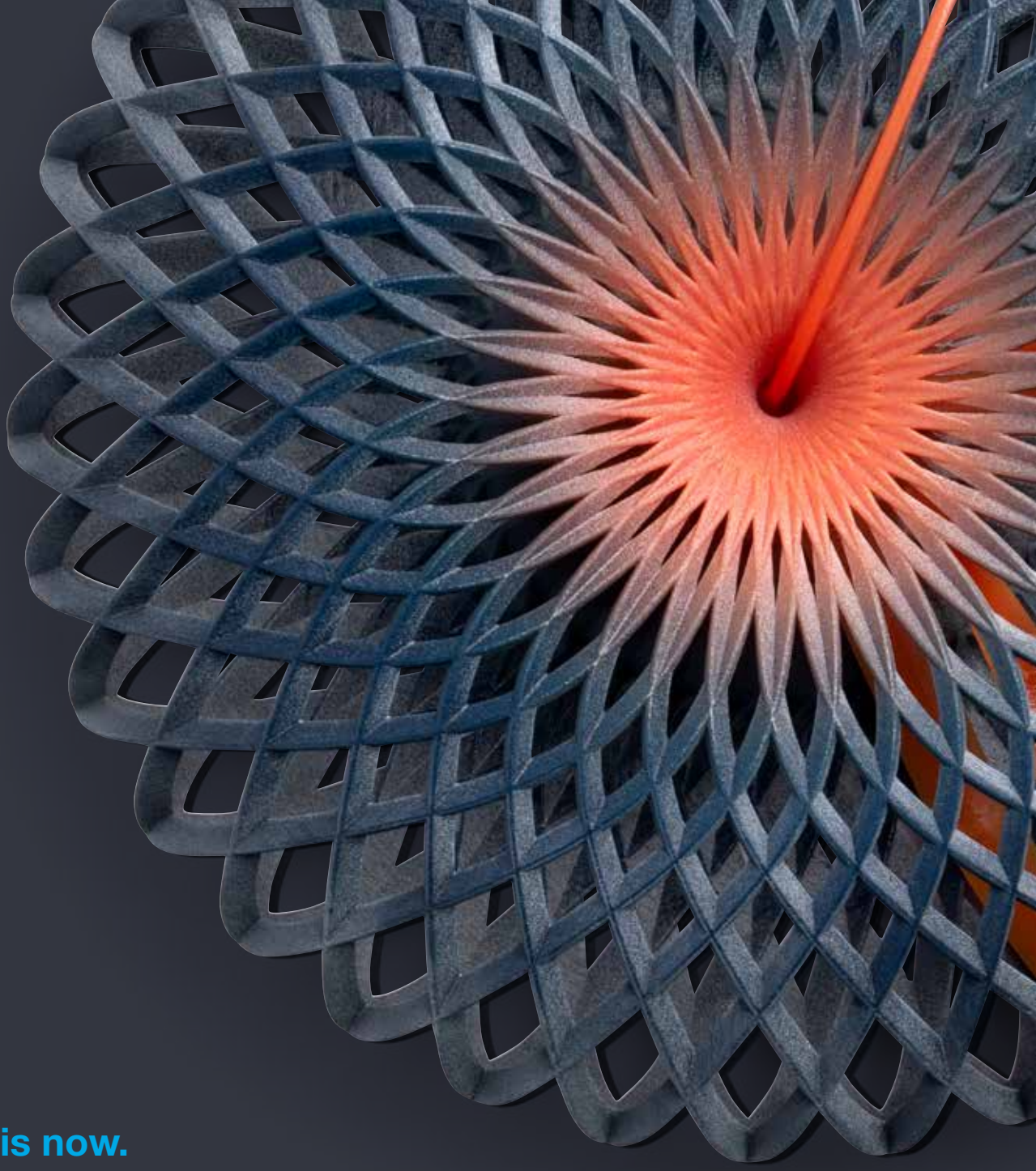
Materials:
VeroVivid

Designed by: Nadia Zinger Wagshall

Imagine, innovate, create with PolyJet 3D printing technology.

Go from ideation to creation with the J8™ Series.

Explore possibilities at every turn with the Stratasys J55™.



The time is now.

Request a design sample today
at stratasys.com/contact-us.

USA - Headquarters
7665 Commerce Way
Eden Prairie, MN 55344, USA
+1 952 937 3000

EMEA
Airport Boulevard B 120
77836 Rheinmünster, Germany
+49 7229 7772 0

ISRAEL - Headquarters
1 Holtzman St., Science Park
PO Box 2496
Rehovot 76124, Israel
+972 74 745 4000

ASIA PACIFIC
7th Floor, C-BONS International Center
108 Wai Yip Street Kwun Tong Kowloon
Hong Kong, China
+ 852 3944 8888

GET IN TOUCH.
www.stratasys.com/contact-us/locations

stratasys.com
ISO 9001:2015 Certified