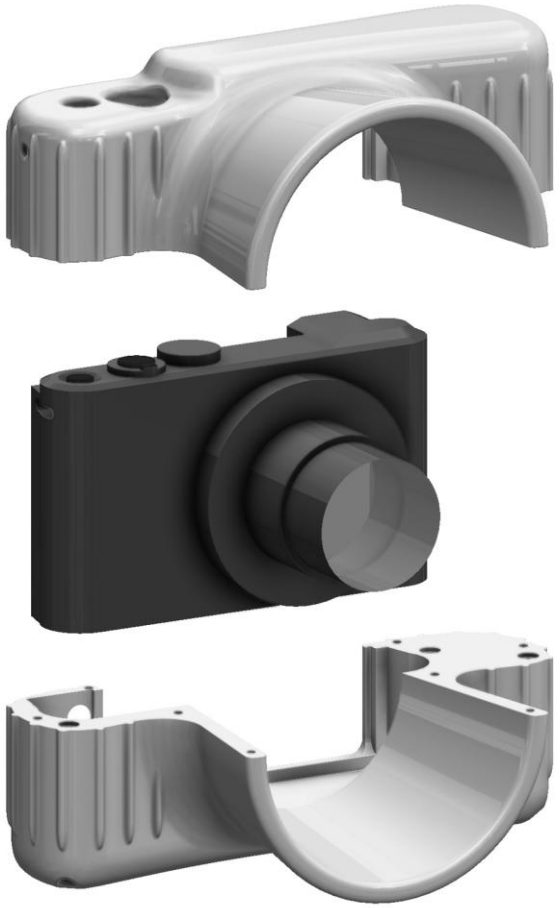
DESIGN / BUILD PORTFOLIO

Ryan Cargo

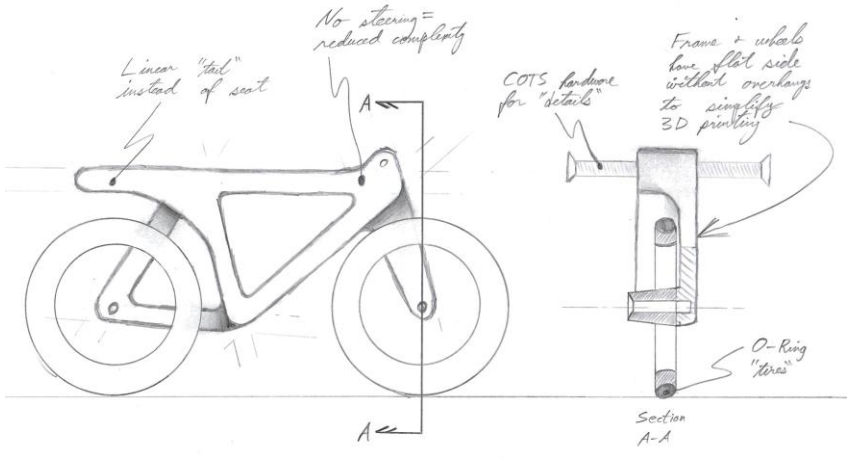
Contents

From design through fabrication, all projects in this portfolio are the original works of Ryan Cargo.

TITLE:	Children's Camera
OBJECTIVE:	"Wrap" a professional digital camera with a child-friendly, 3D printed shell to improve ergonomics, protect the lens, and limit functions to simply "zoom, shoot and playback" by covering unnecessary buttons.



TITLE:	Toy Bicycle
OBJECTIVE:	Create a fun, durable, and easy to build toy bicycle using basic 3D printing (no support material required) and easily obtainable hardware & O-rings.



TITLE:	Children's Toys
OBJECTIVE:	Various CNC machined and traditionally handcrafted wooden toys

TITLE:	Jewelry
OBJECTIVE:	Various one-of-a-kind pieces realized through handwork, CNC machining, 3D printing, and heat-treatment. Made from titanium, silver, bronze, and wood.

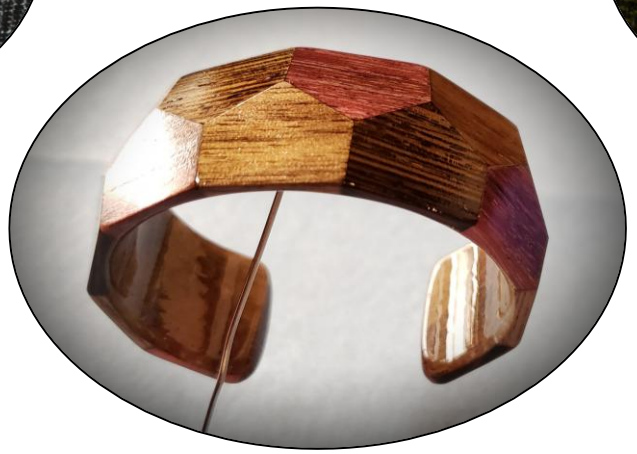










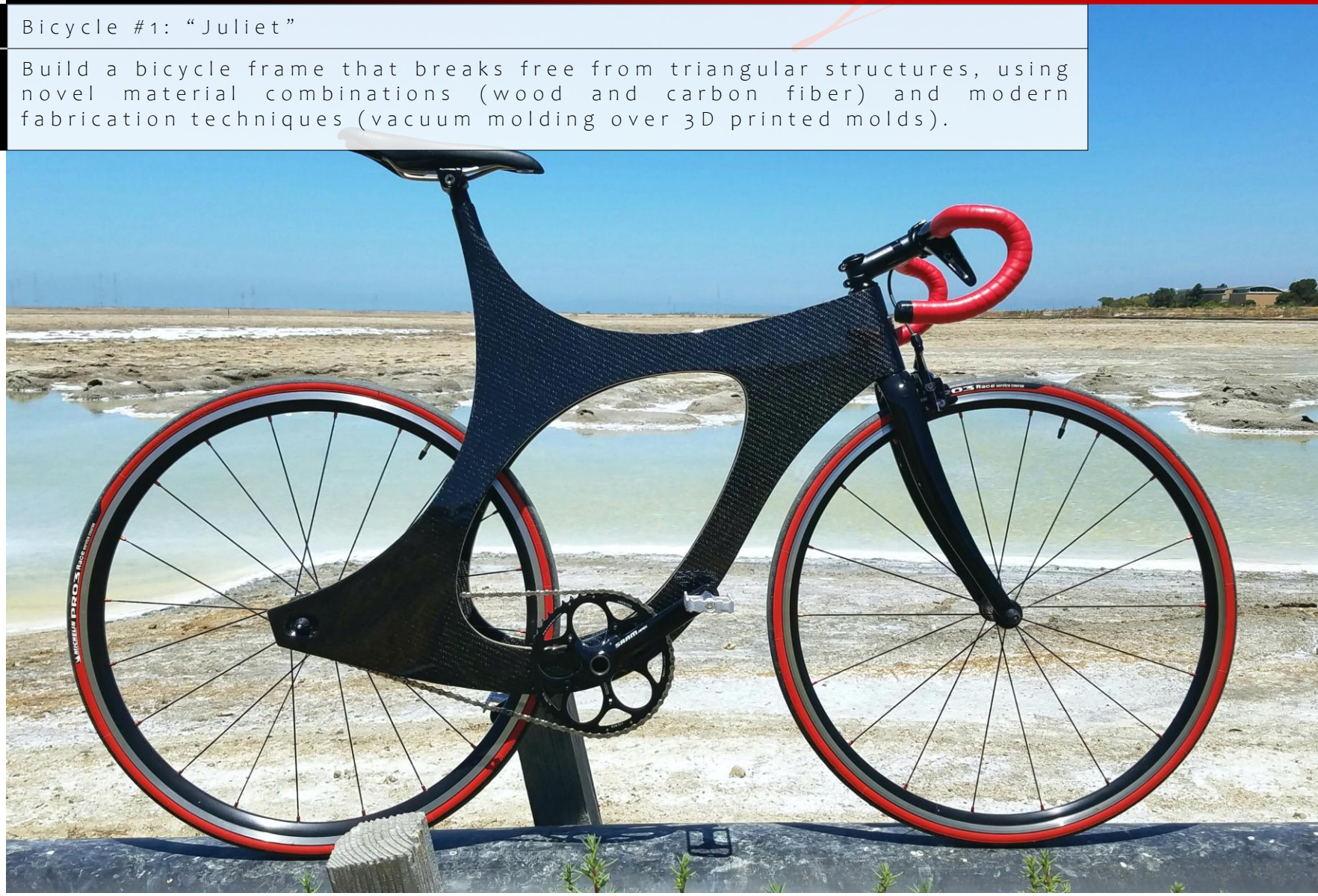


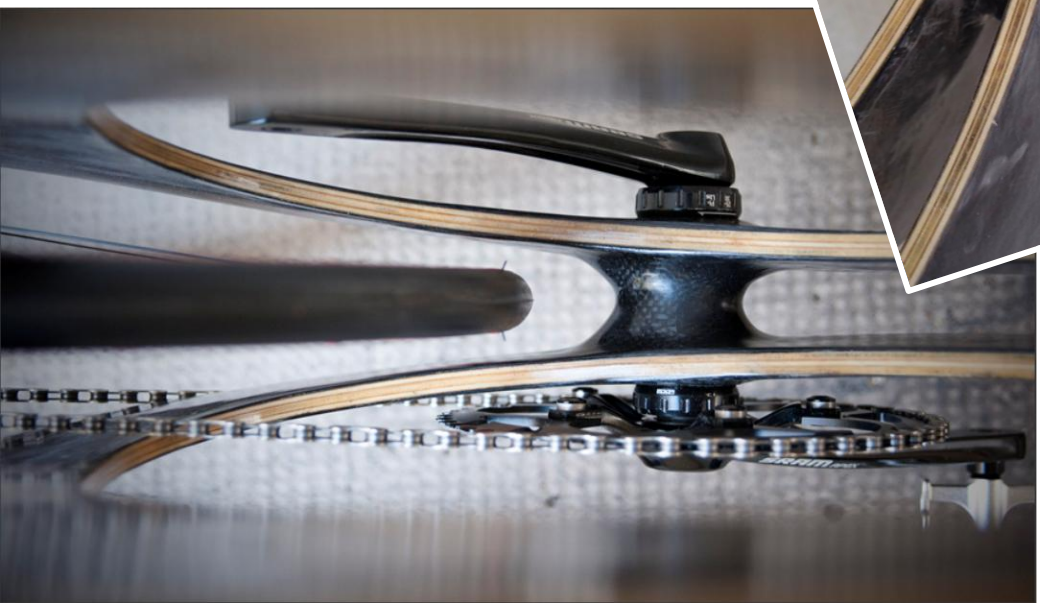

JULIET DESIGNS

www.juliet-designs.com

juliet

TITLE:	Bicycle #1: "Juliet"
OBJECTIVE:	Build a bicycle frame that breaks free from triangular structures, using novel material combinations (wood and carbon fiber) and modern fabrication techniques (vacuum molding over 3D printed molds).





(12) **United States Design Patent**
Cargo

(10) **Patent No.: US D831,543 S**
(45) **Date of Patent: ** Oct. 23, 2018**

(54) **BICYCLE FRAME**

(71) Applicant: **Ryan Christopher Cargo**, Foster City, CA (US)

(72) Inventor: **Ryan Christopher Cargo**, Foster City, CA (US)

) Term: **15 Years

1) Appl. No.: **29/605,633**

Filed: **May 27, 2017**

LOC (11) Cl. **12-11**
U.S. Cl.
JSPC **D12/111**
ield of Classification Search
SPC D12/111, 117; D21/412, 414, 419, D21/423–428, 431–435
..... B62K 3/00; B62K 3/02; B62K 3/06
pplication file for complete search history.

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D811,946	S *	3/2018	Williams	D12/111

* cited by examiner

Primary Examiner — Darlington Ly

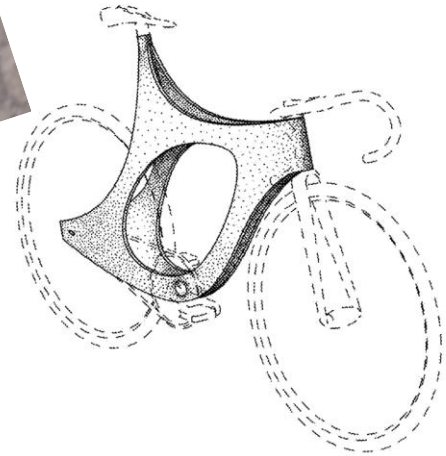
(57) **CLAIM**

The ornamental design for a bicycle frame, as shown and described.

DESCRIPTION

FIG. **1** is a front perspective view of a bicycle frame showing my new design;
FIG. **2** is a rear perspective view thereof;
FIG. **3** is a right side elevation view thereof;
FIG. **4** is a front elevation view thereof;
FIG. **5** is a rear elevation view thereof; and,
FIG. **6** is a top plan view thereof.
The broken lines showing various parts of a bicycle are provided for the purpose of illustrating environmental structure and do not form part of the claimed design.

1 Claim, 4 Drawing Sheets

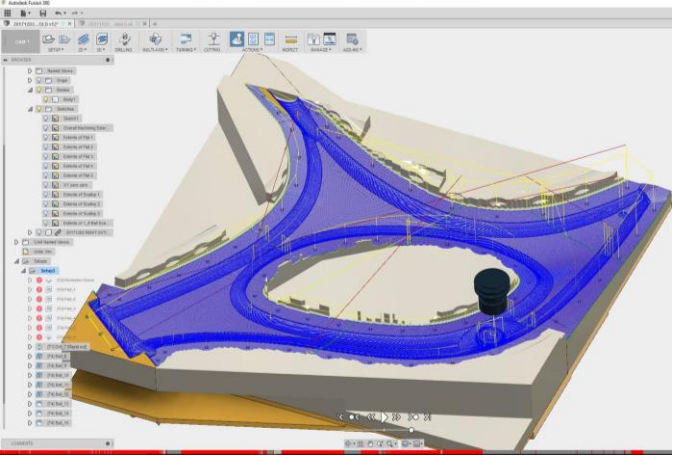


JULIET DESIGNS

www.juliet-designs.com

ella

TITLE:	Bicycle #2: “Ella”
OBJECTIVE:	Evolve the original “Juliet” form into a more beautiful, aerodynamic frame, engineered to interface with modern gravel bike components, built entirely from vacuum-formed carbon fiber over CNC-cut molds. I’ve now put over 2,000 miles on this bicycle.

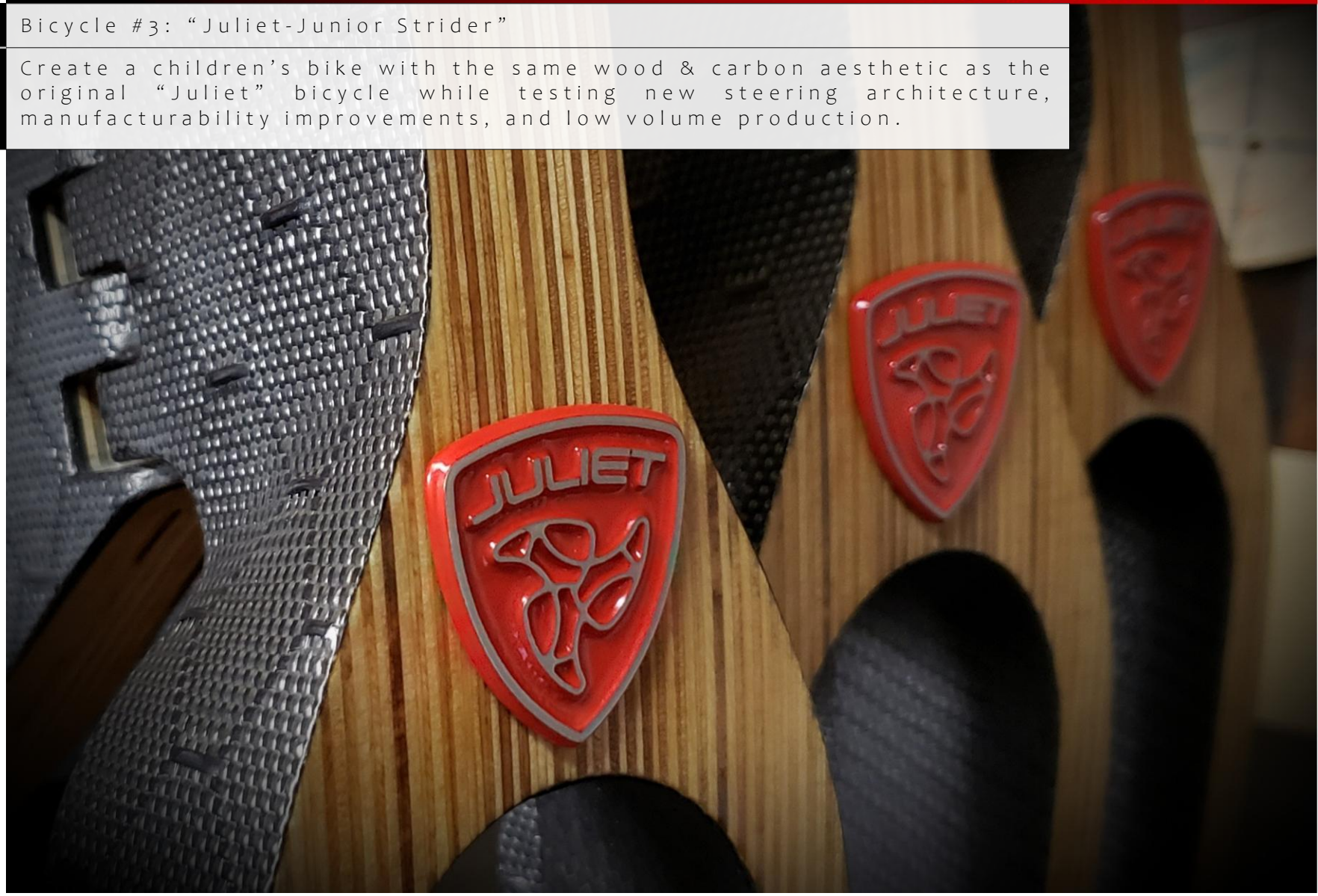


JULIET DESIGNS

www.juliet-designs.com

strider

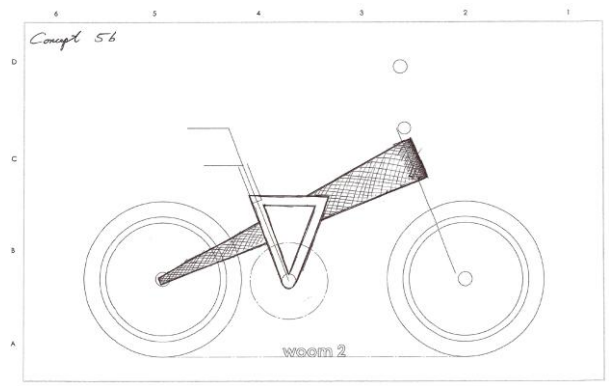
TITLE:	Bicycle #3: “Juliet-Junior Strider”
OBJECTIVE:	Create a children’s bike with the same wood & carbon aesthetic as the original “Juliet” bicycle while testing new steering architecture, manufacturability improvements, and low volume production.

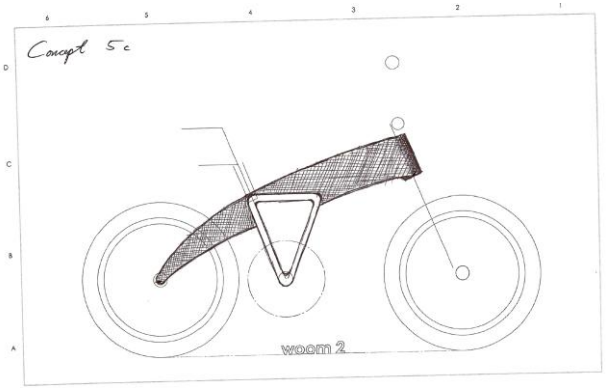


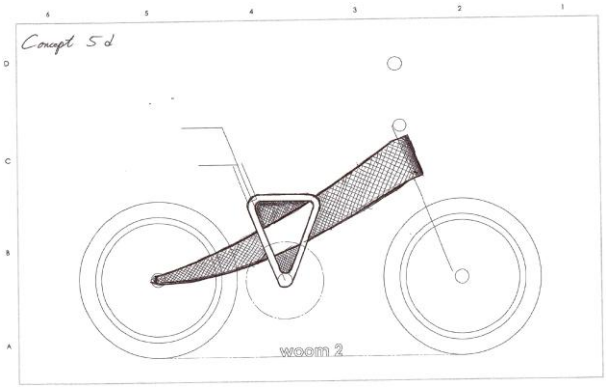

SHAPEOKO

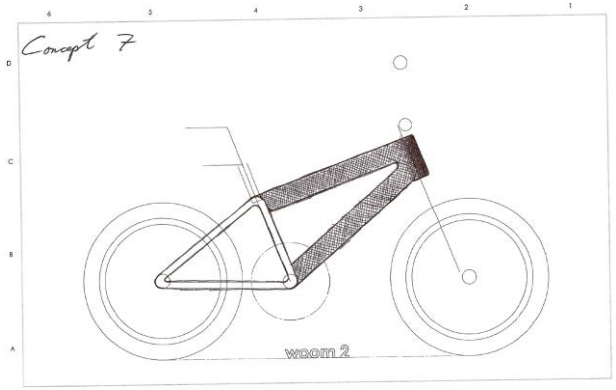

SHAPEOKO

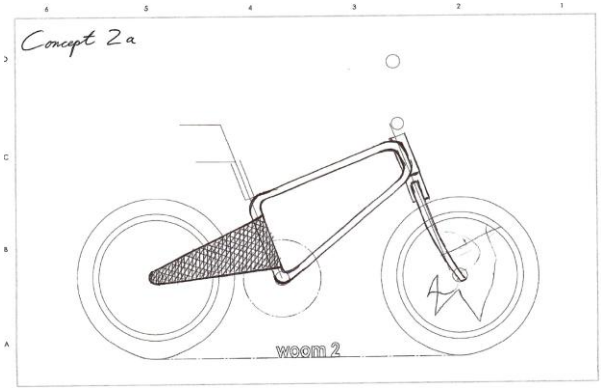
TITLE:	Children's Bicycle Concepts
OBJECTIVE:	Ideation phase sketches aligned to known ergonomic / geometric constraints.

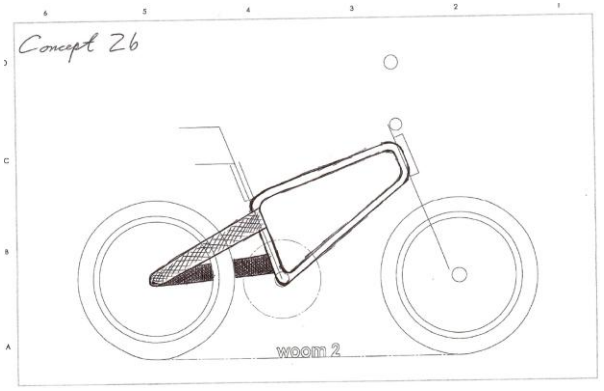


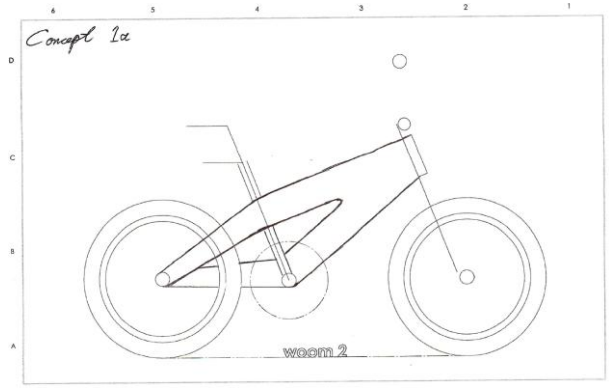


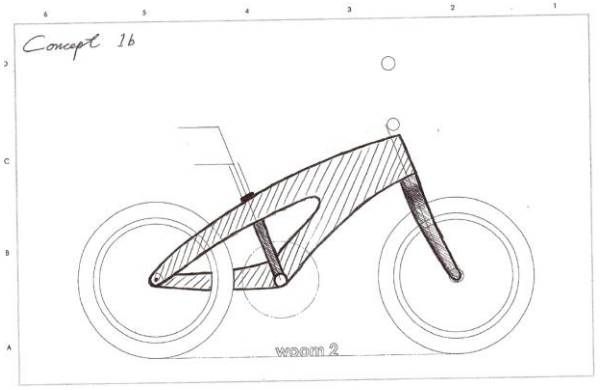


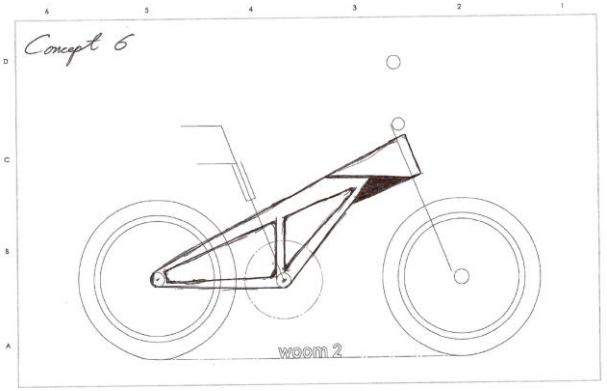


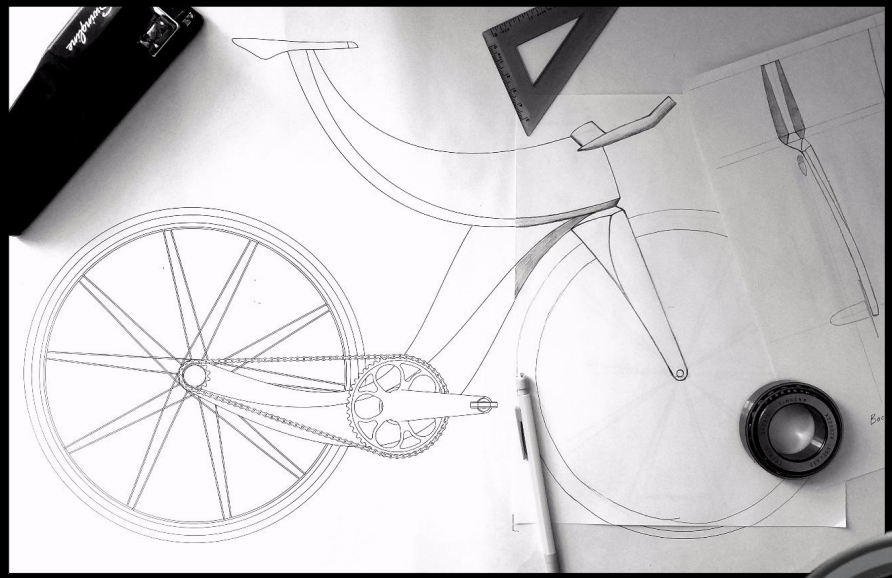


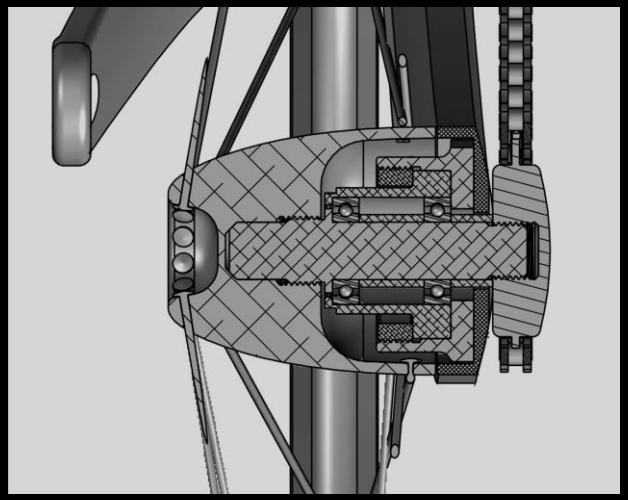


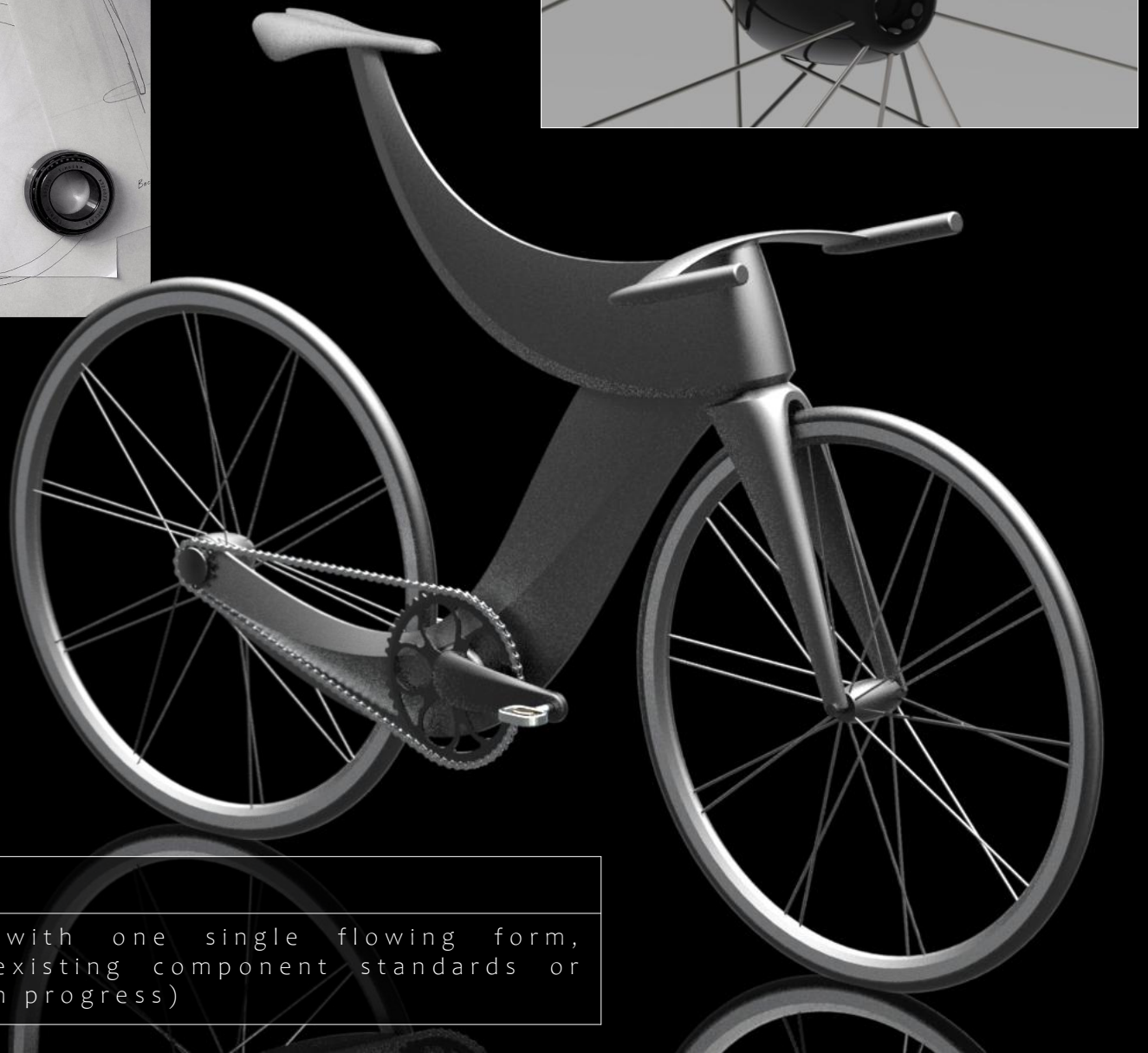




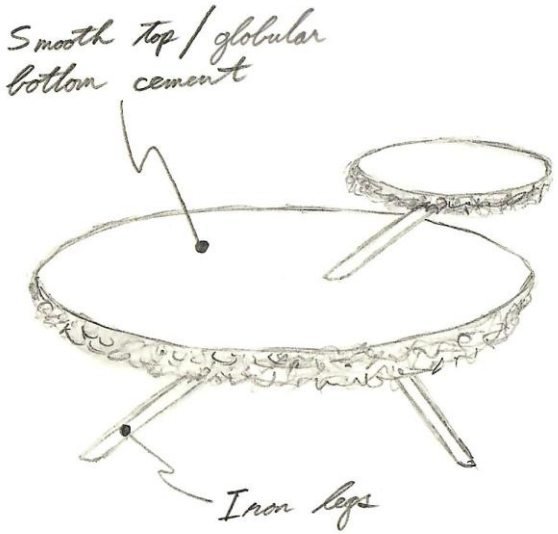






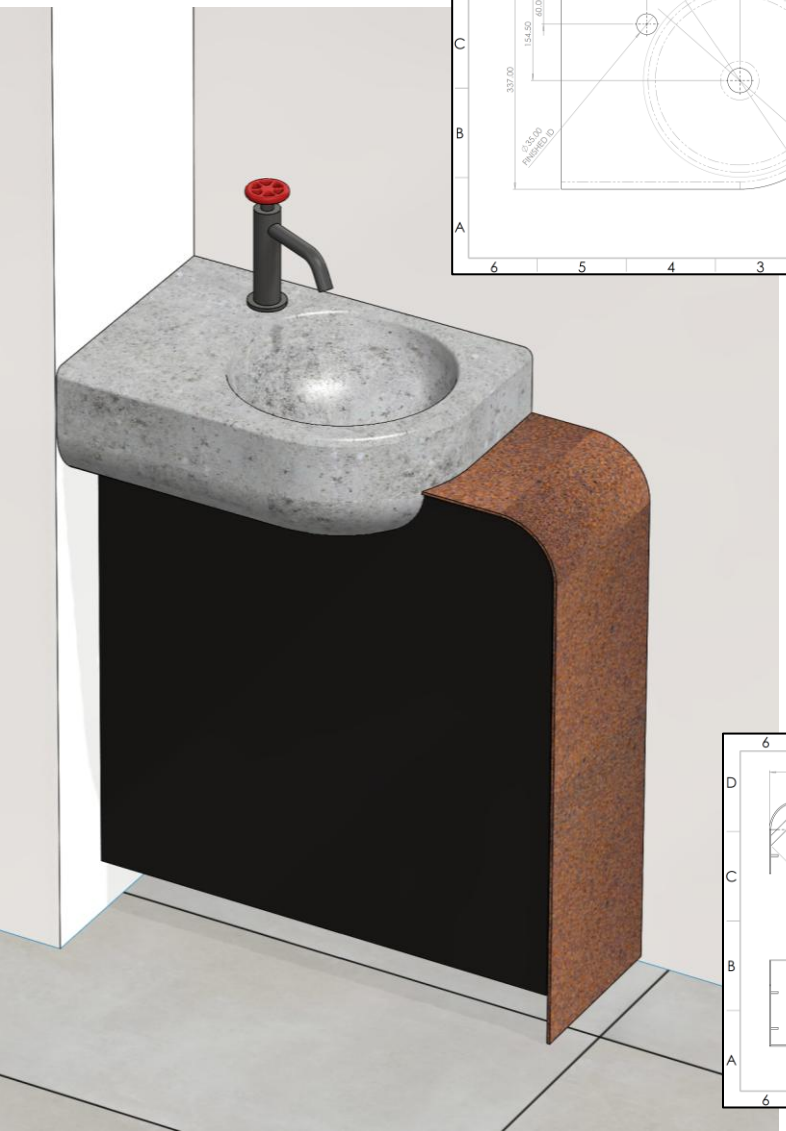


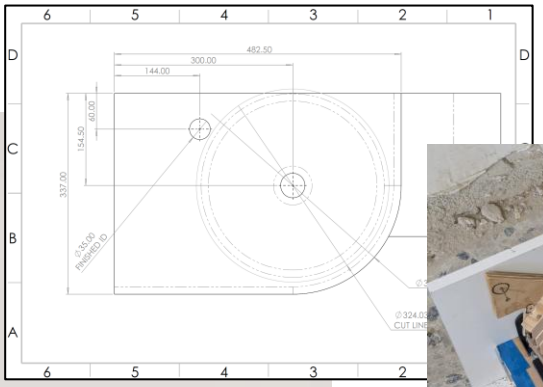
TITLE:	“Whisper” Bicycle
OBJECTIVE:	Sculpt a bicycle with one single flowing form, unconstrained by existing component standards or dimensions. (work in progress)

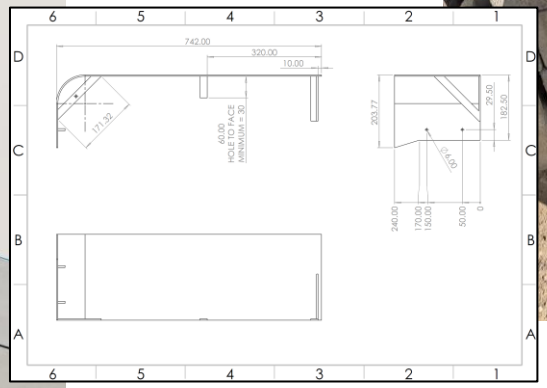


TITLE:	Sliced Meteor Accent Table
OBJECTIVE:	Mold a table with a single planar surface such that the remainder of the exterior takes on the material's (cement) own shape and texture. Support with rusted rebar legs to complement the aesthetic of untouched, organic decay.

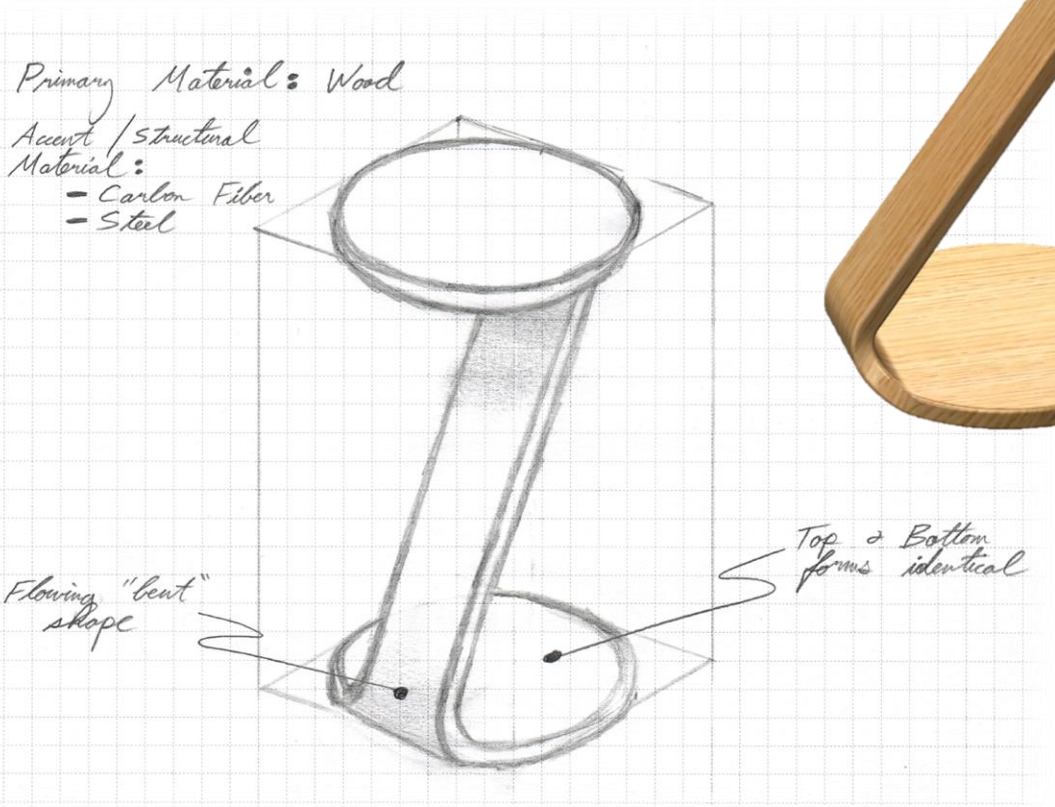
TITLE:	Bathroom Vanity
OBJECTIVE:	Create a powder room vanity with a brutalist aesthetic pairing raw, geometric concrete with rusted steel. (work in progress)





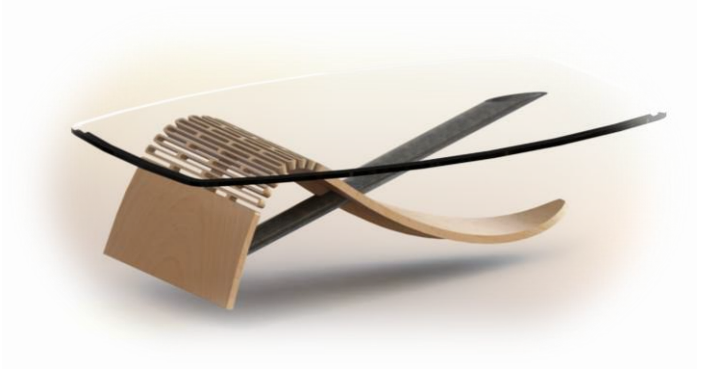


TITLE:	Breakfast Bar Stools
OBJECTIVE:	Build graceful, minimalist stool with a wood form inlaid with modern structural elements to contrast brutalist cement breakfast bar architecture.

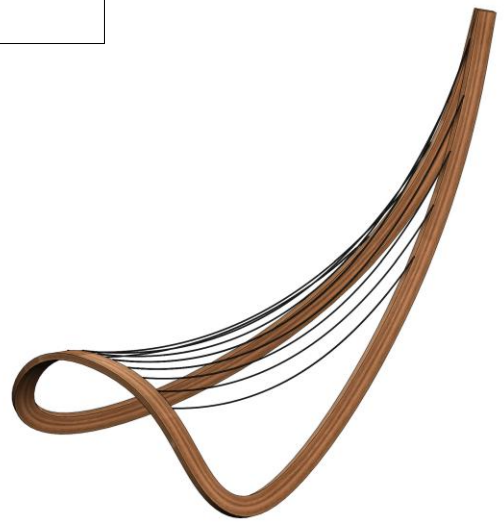


TITLE:	Furniture Concepts
OBJECTIVE:	Design studies of various forms & materials.

wood bench
with steel legs

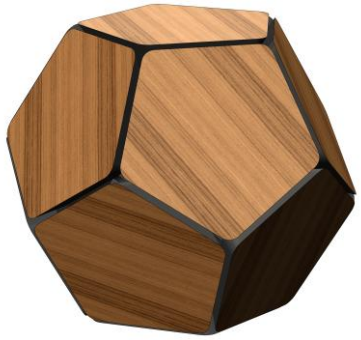


glass coffee table with
kerf-bent wood leg



rocking chair with
steam-bent wood & cord

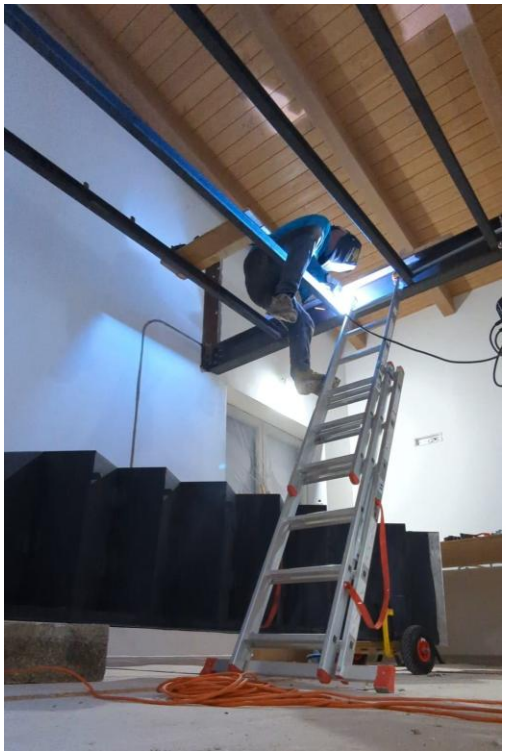
marble table
with steel legs

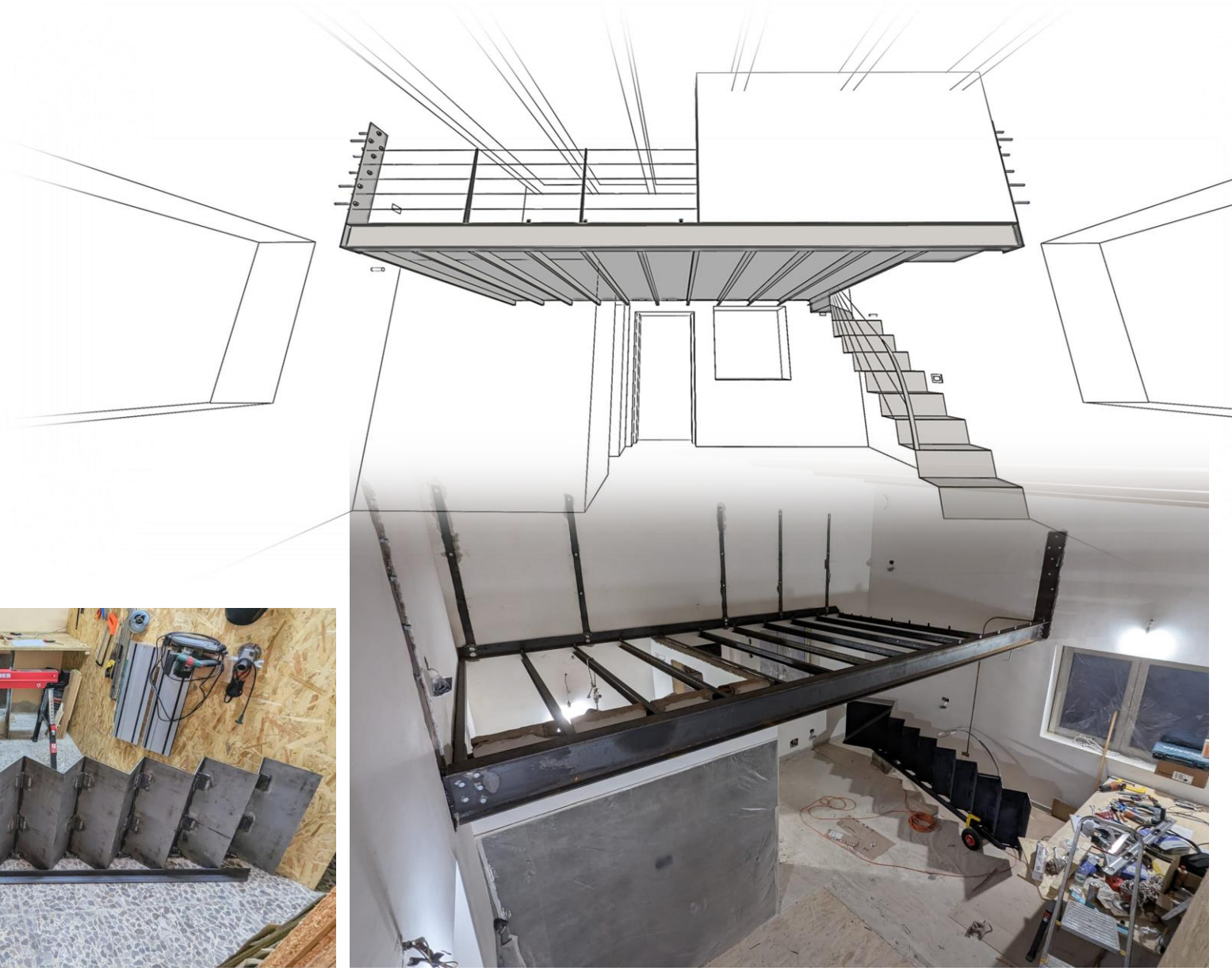


dodecahedron lamp

glass table with
faceted steel support

TITLE:	Tiny House Sleeping Loft
OBJECTIVE:	Construct a loft within an existing 300 square foot building. Welded steel structure with minimalist stairs, cable railings, built-in cabinets and sleeping space for three.



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