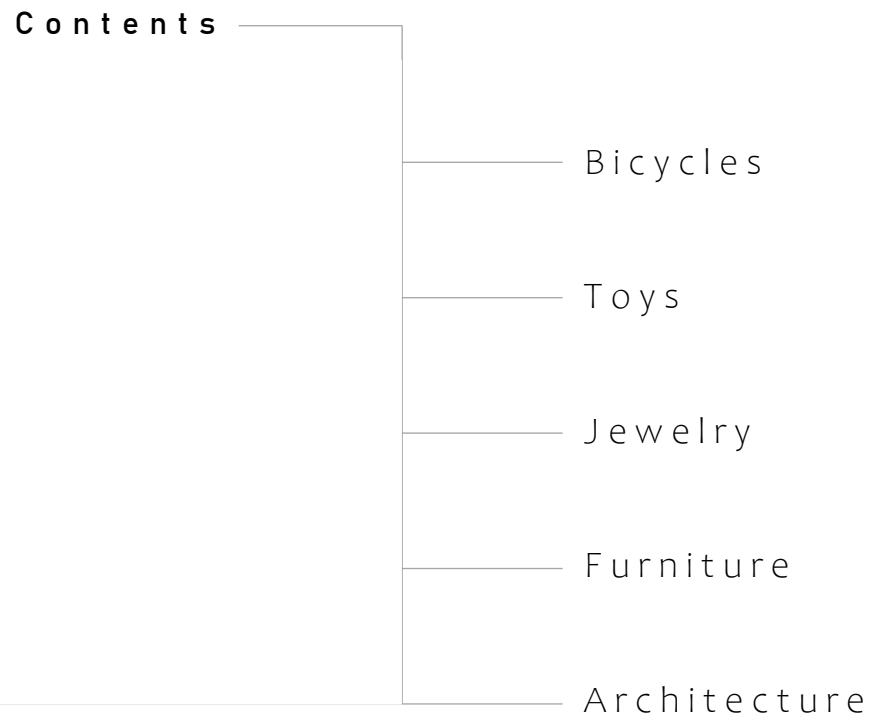




DESIGN / BUILD PORTFOLIO

Ryan Cargo

Contents



Bicycles

Toys

Jewelry

Furniture

Architecture

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



JULIET DESIGNS

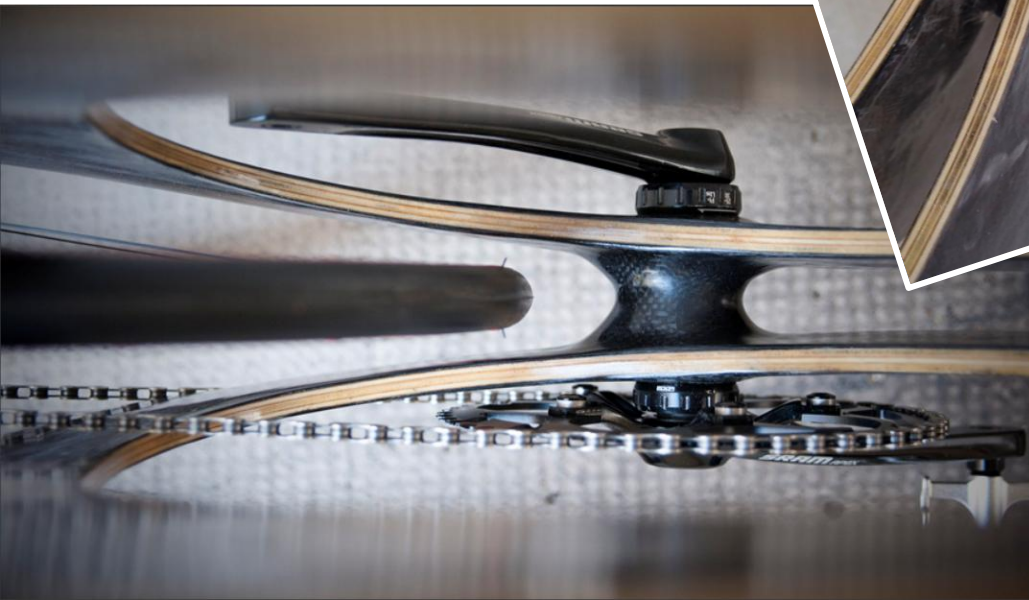
www.juliet-designs.com

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** (10) **Patent No.:** **US D831,543 S**
Cargo (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

Field of Classification Search

JPC D12/111, 117; D21/412, 414, 419,

..... D21/423-428, 431-435

..... B62K 3/00; B62K 3/02; B62K 3/06

application file for complete search history.

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 * 9/1997 Lee D12/111
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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;

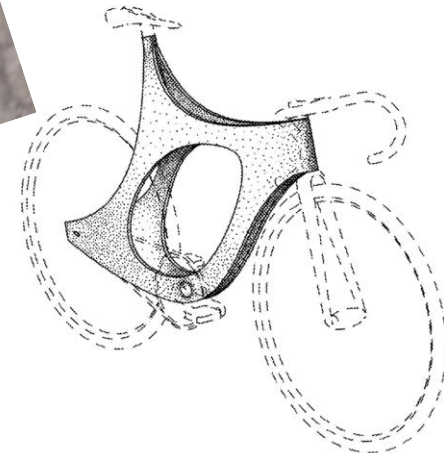
FIG. 4 is a front elevation view thereof;

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





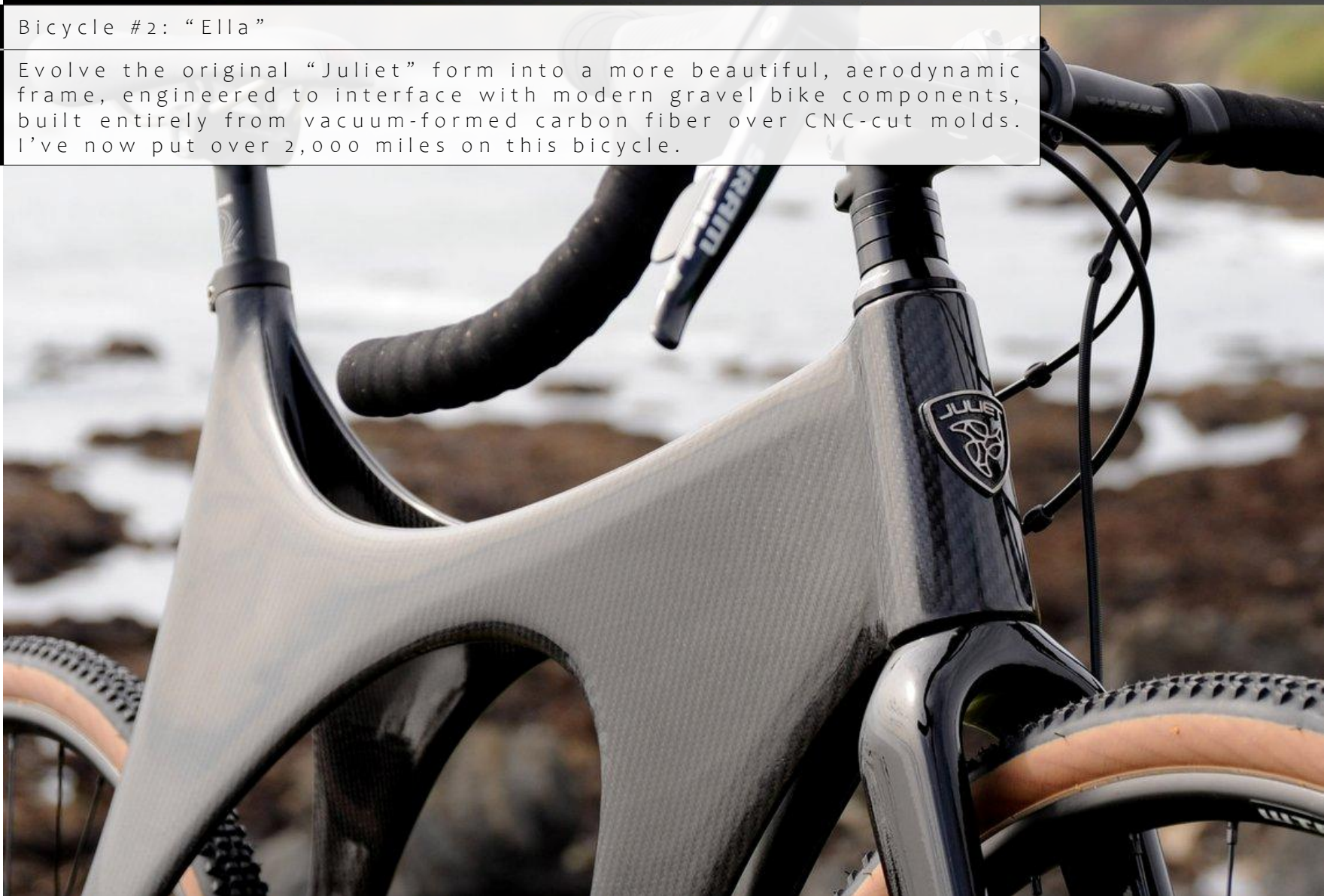
JULIET DESIGNS

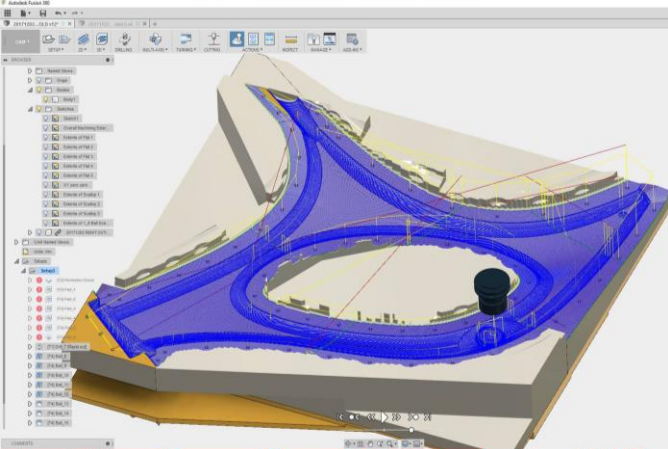
www.juliet-designs.com

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"

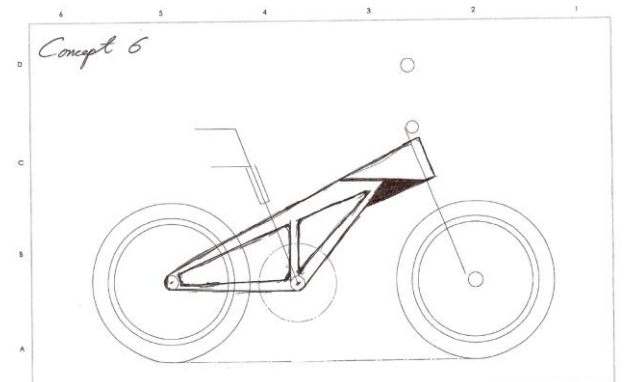
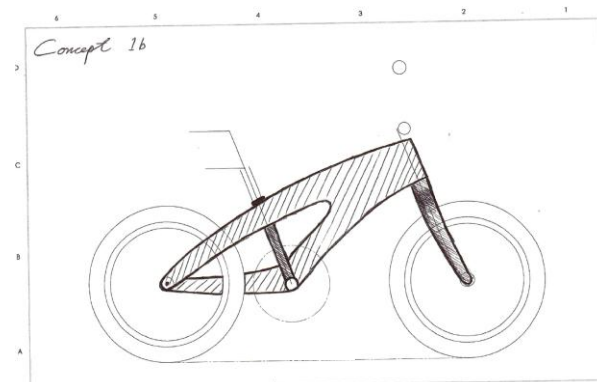
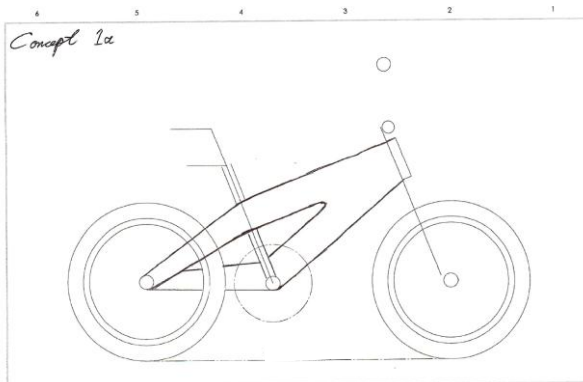
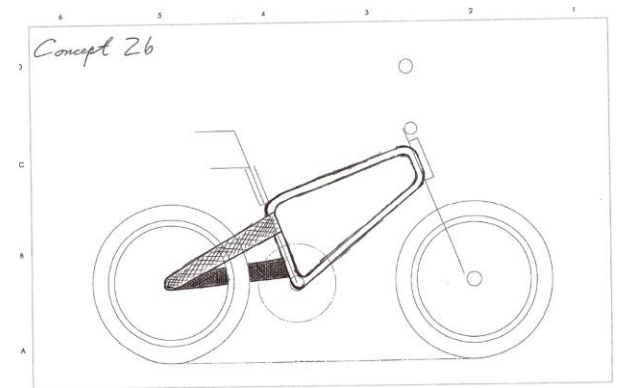
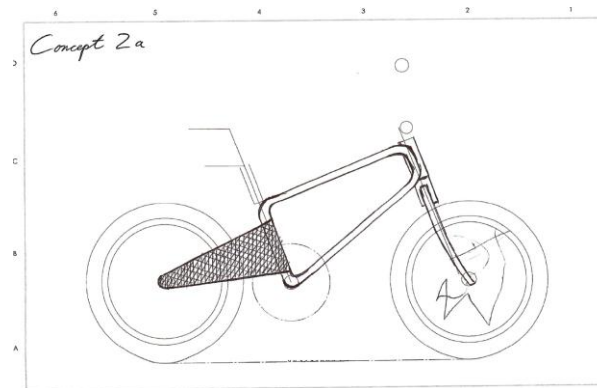
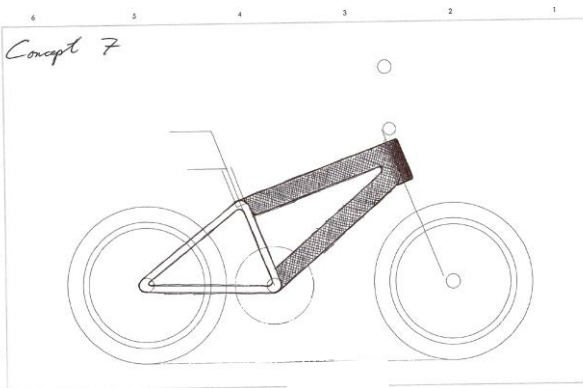
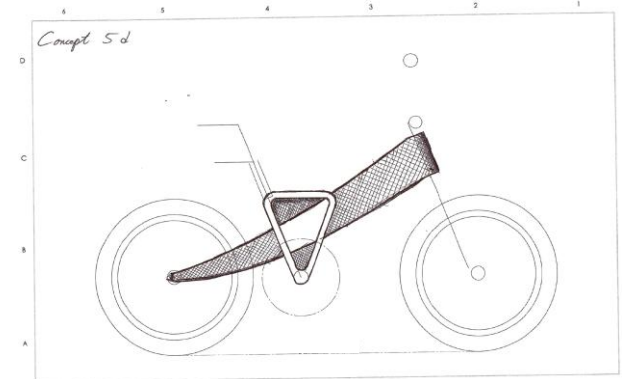
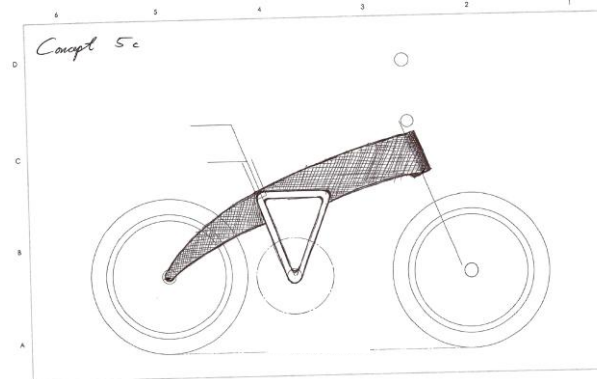
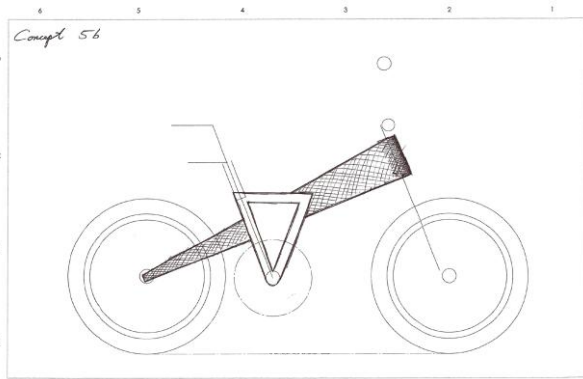
OBJECTIVE: Create a children's bike with the same wood & carbon aesthetic as the original "Juliet" bicycle while testing new steering architecture, manufacturability improvements, and low volume production.

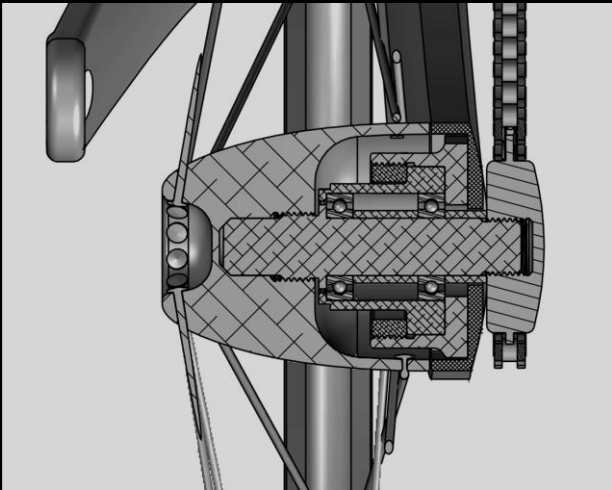
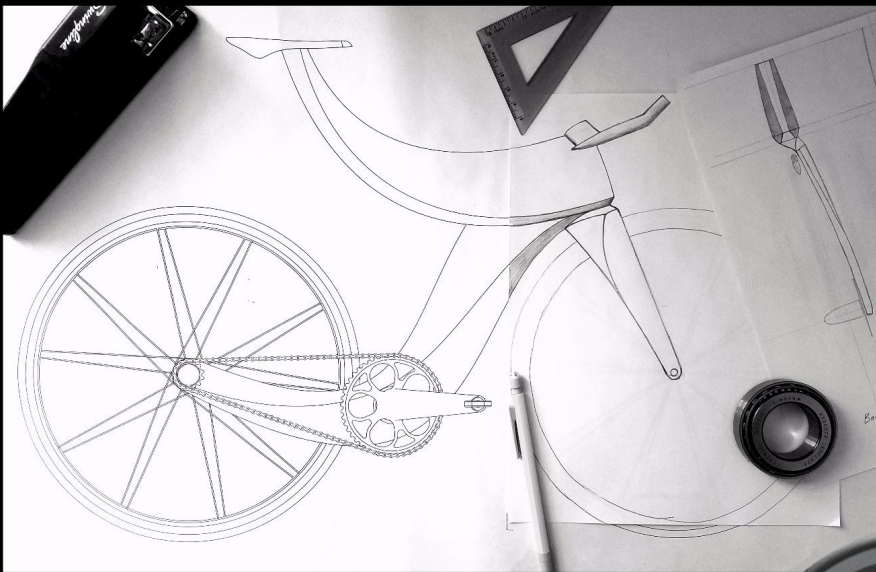




TITLE: Children's Bicycle Concepts

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.

TITLE:	Full Suspension Concepts
OBJECTIVE:	Explore aesthetic and structural possibilities of flexure and rotary-hydraulic-damper based frames – a continuation of the “departure from triangles” design ethos.



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.





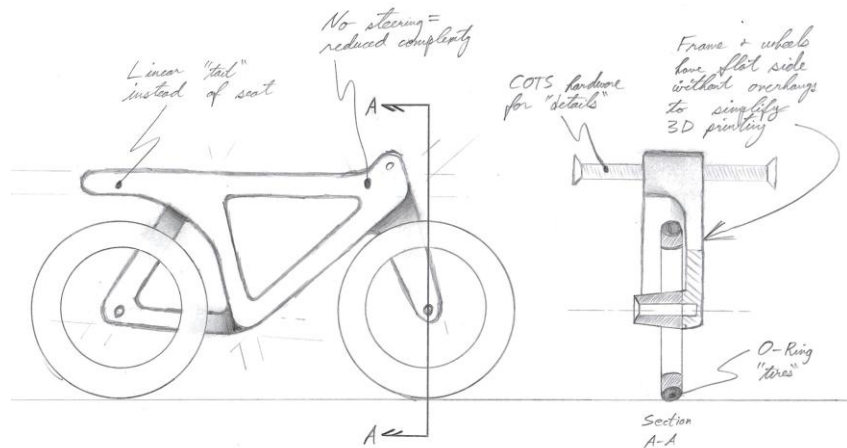
TITLE: Children's Toys

OBJECTIVE: Various CNC machined and traditionally handcrafted wooden toys



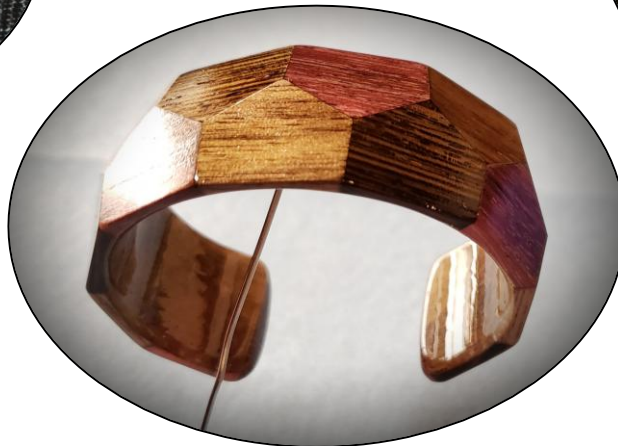
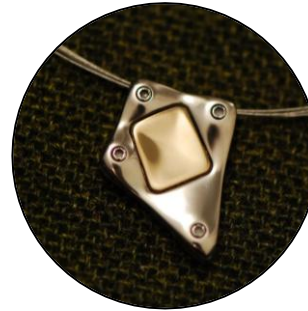
TITLE: Toy Bicycle

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.

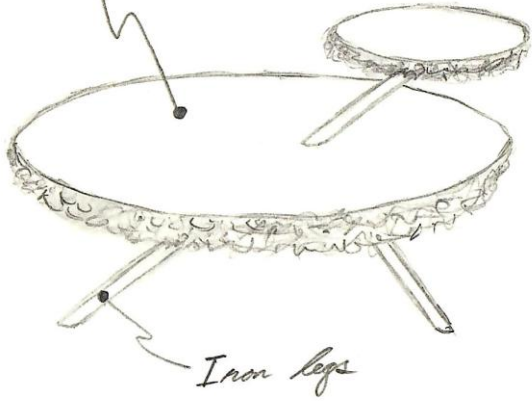


TITLE: Jewelry

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



Smooth top / globular
bottom cement

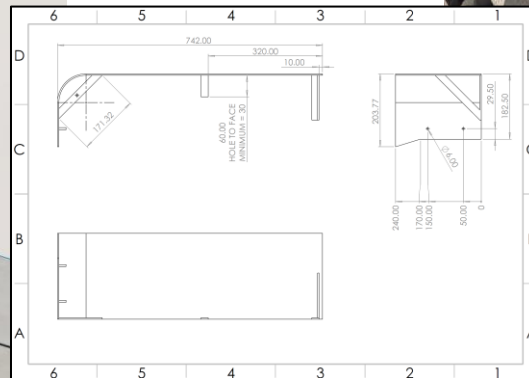
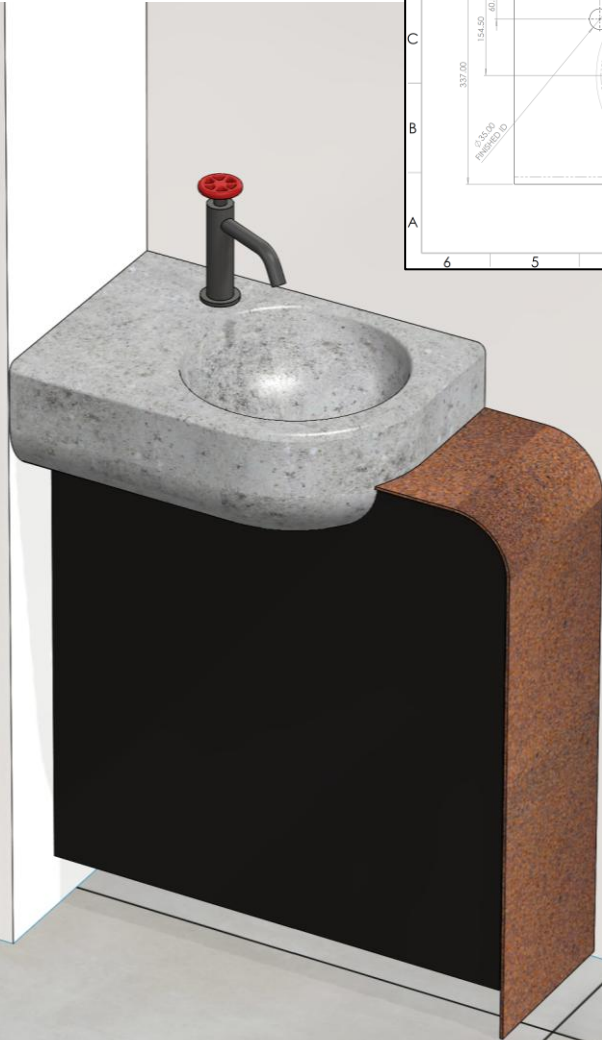
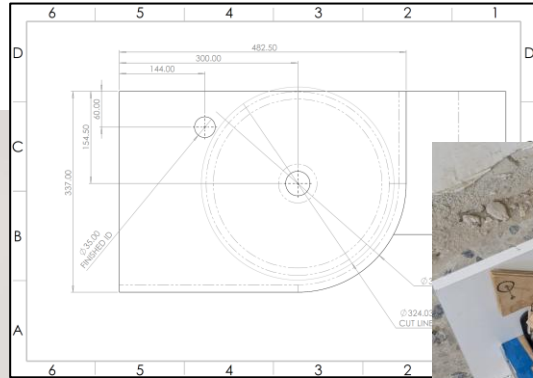


TITLE: Sliced Meteor Accent Table

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.

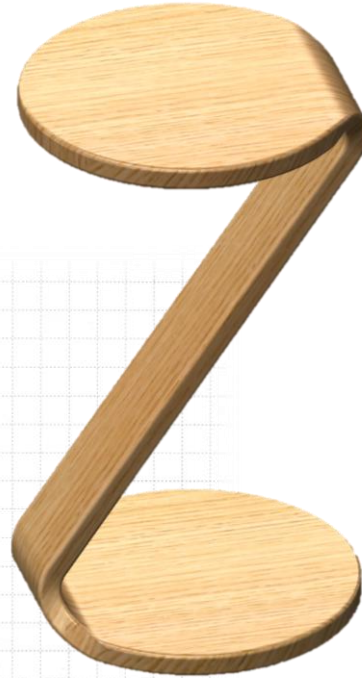
Primary Material: Wood

Accent / Structural
Material:

- Carbon Fiber
- Steel

Flowing "bent"
shape

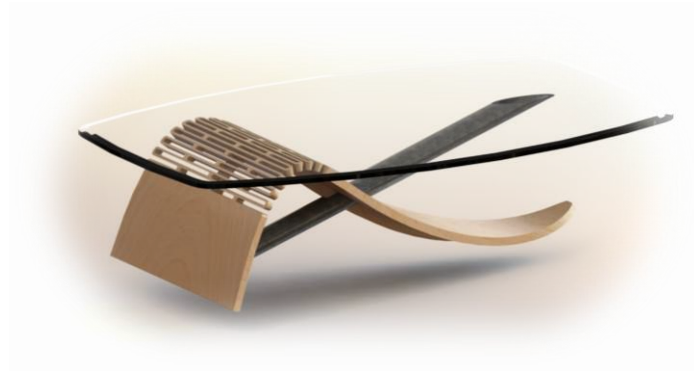
Top & Bottom
forms identical



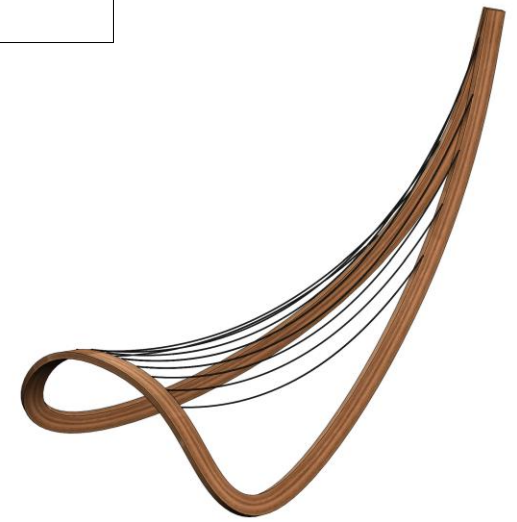
TITLE:	Furniture Concepts
OBJECTIVE:	Design studies of various forms & materials.



wood bench
with steel legs



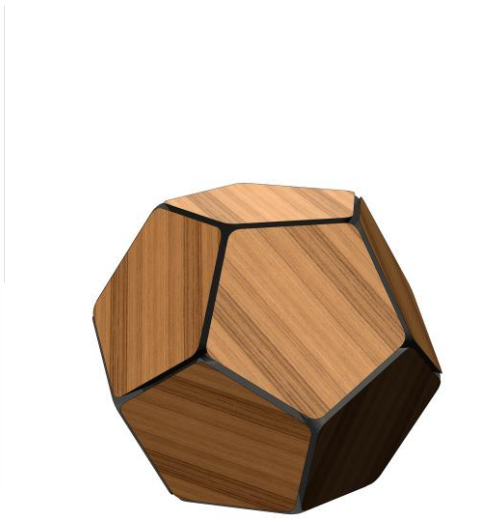
glass coffee table with
kerf-bent wood leg



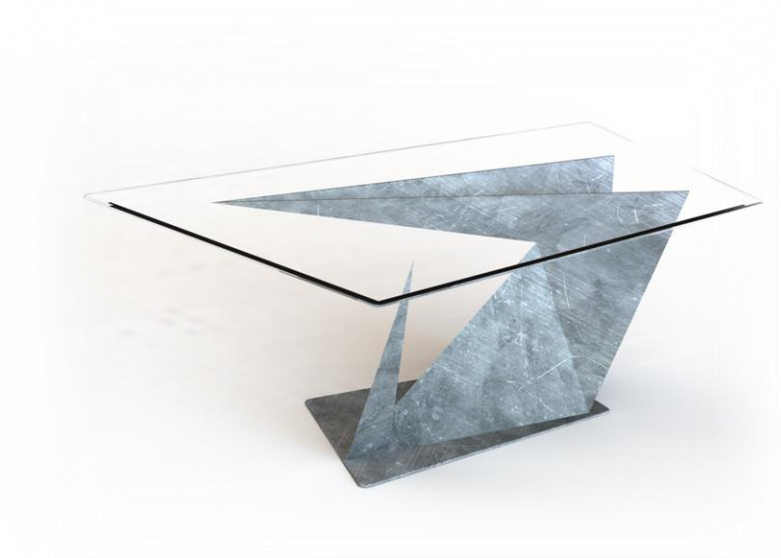
rocking chair with
steam-bent wood & cord



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.

