



DESIGN / BUILD PORTFOLIO
Ryan Cargo

C o n t e n t s

Bicycles

Toys

Jewelry

Furniture

Architecture



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

JSPC 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.

References Cited

U.S. PATENT DOCUMENTS

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* 9/1997	Lee	D12/111
* 1/1998	Zeigle	D12/111
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* cited by examiner

Primary Examiner — Darlington Ly

(57) **CLAIM**

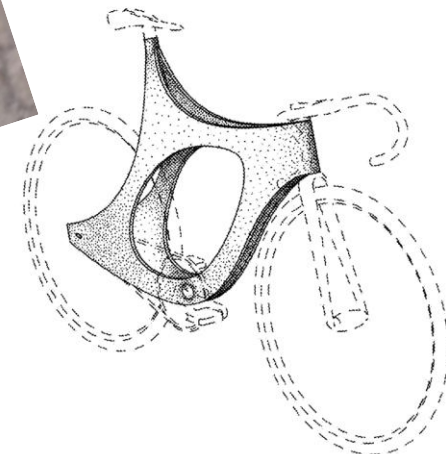
The ornamental design for a bicycle frame, as shown and described.

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





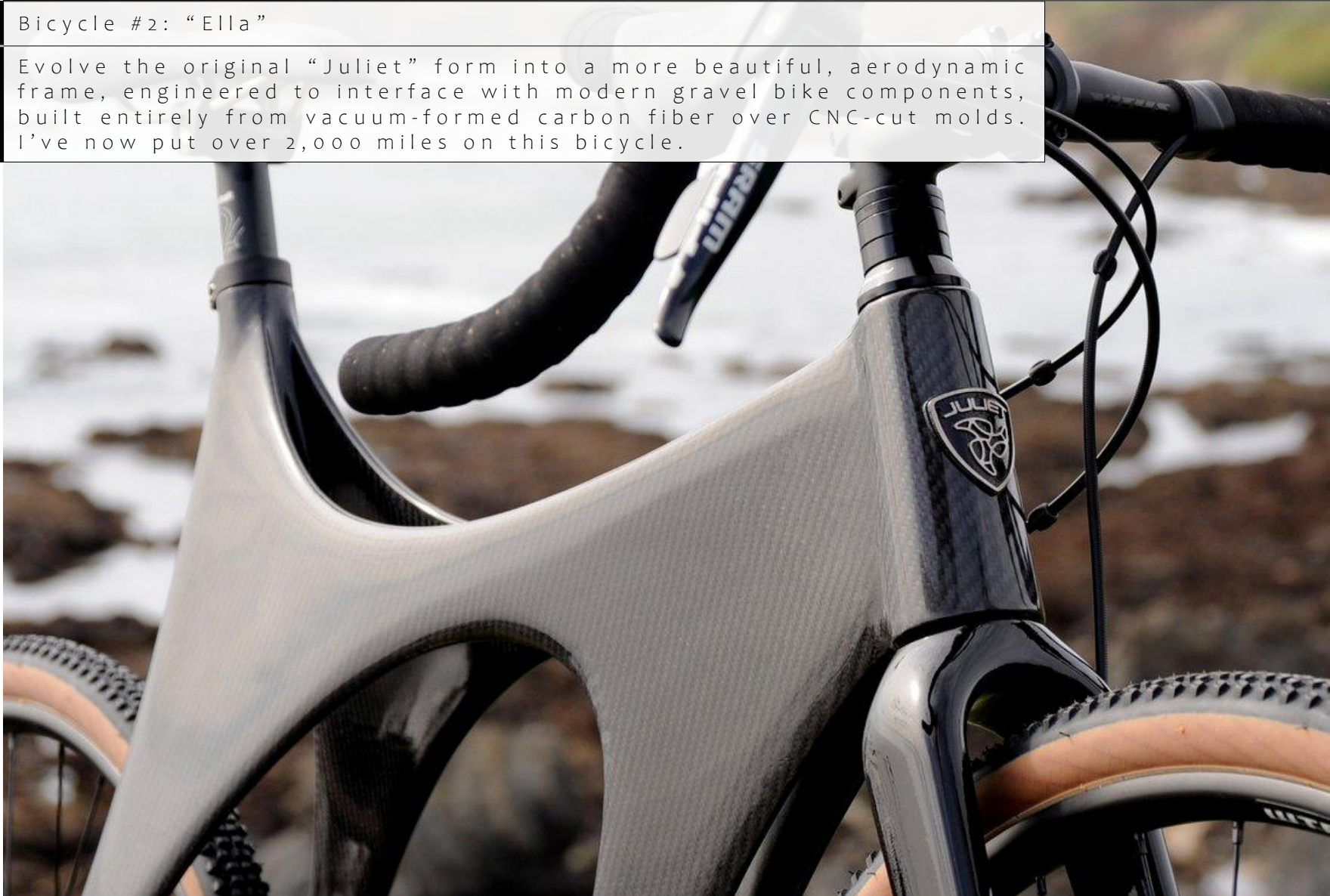
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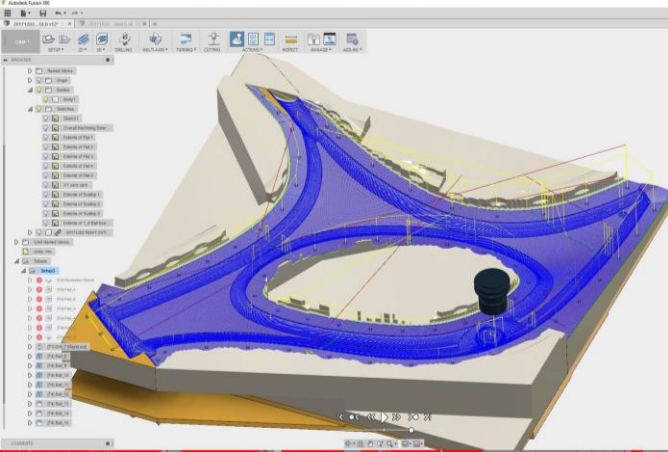
www.juliet-designs.com

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"

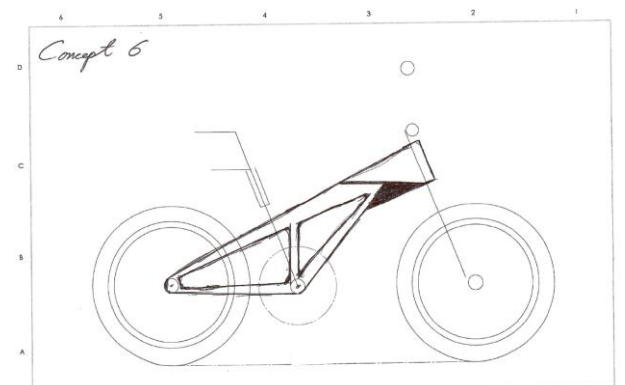
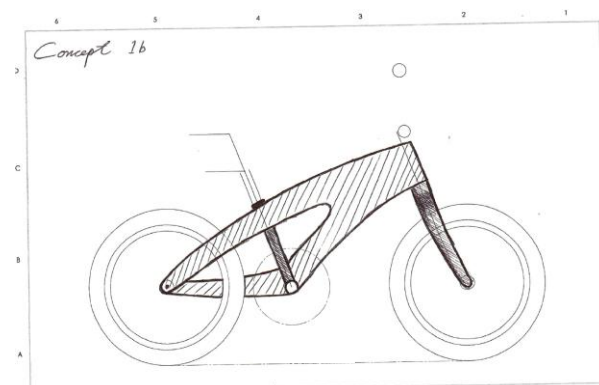
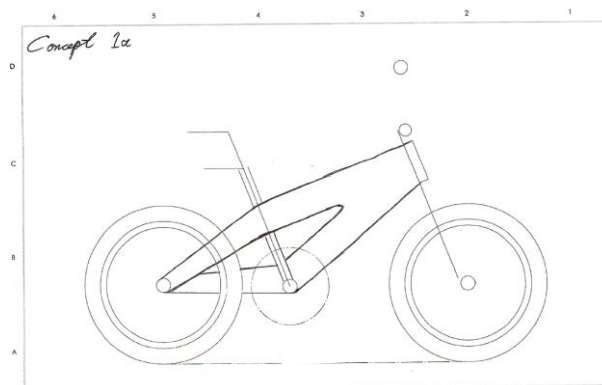
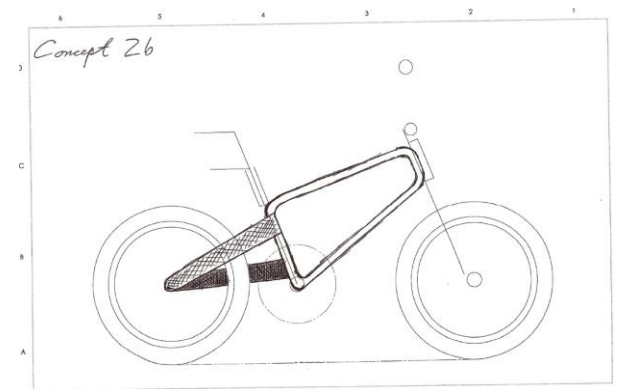
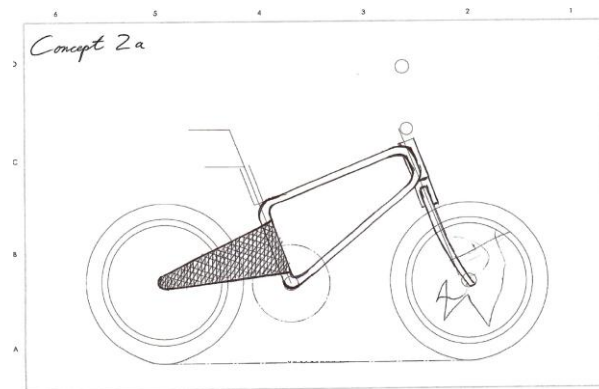
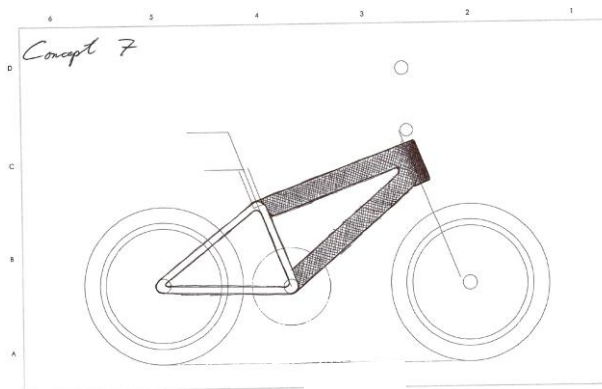
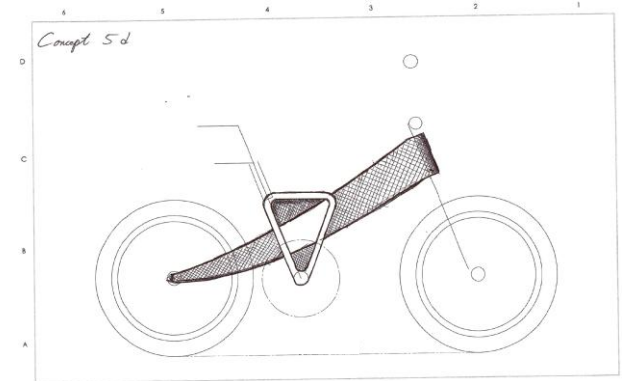
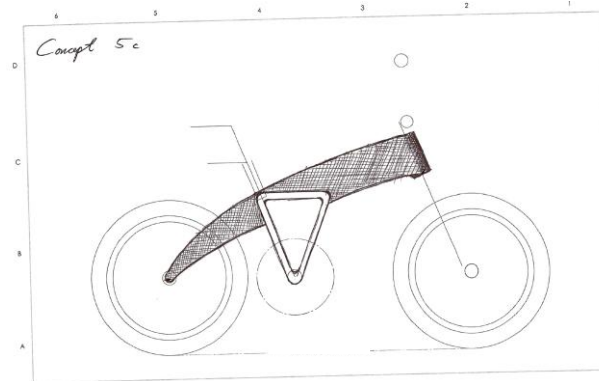
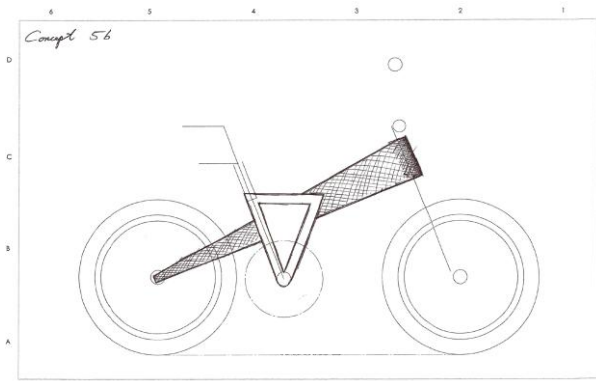
OBJECTIVE: Create a children's bike with the same wood & carbon aesthetic as the original "Juliet" bicycle while testing new steering architecture, manufacturability improvements, and low volume production.

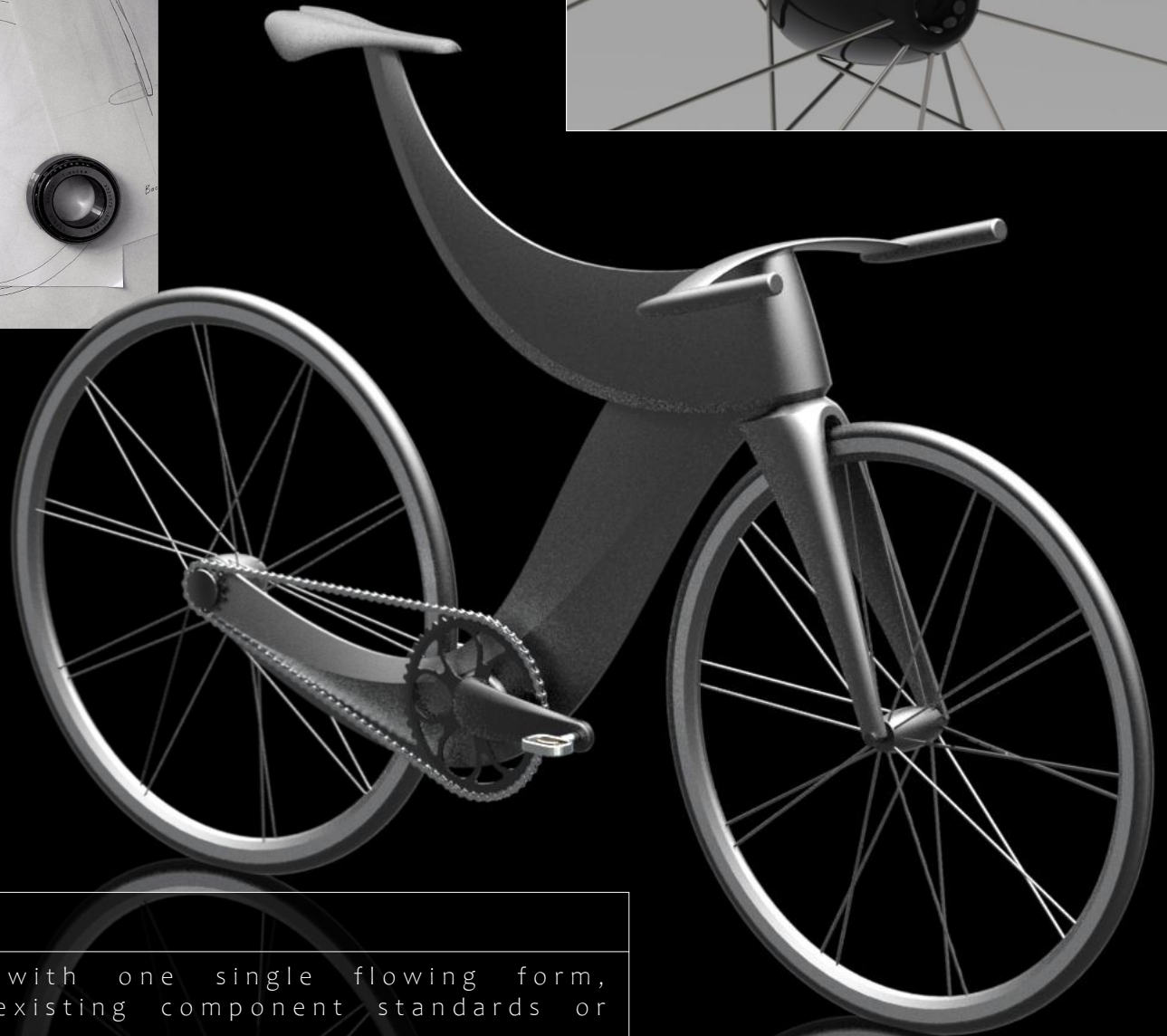
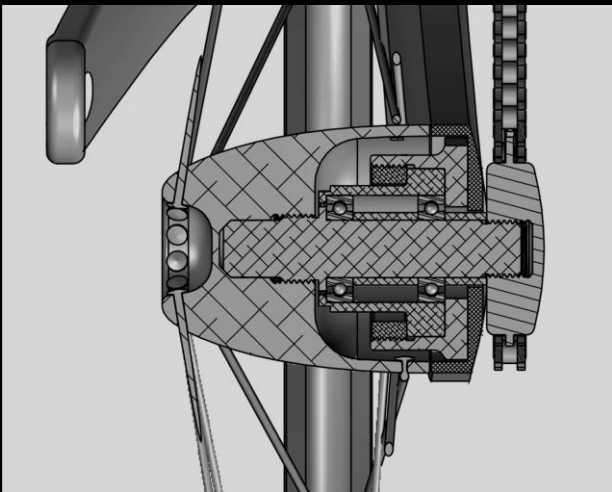
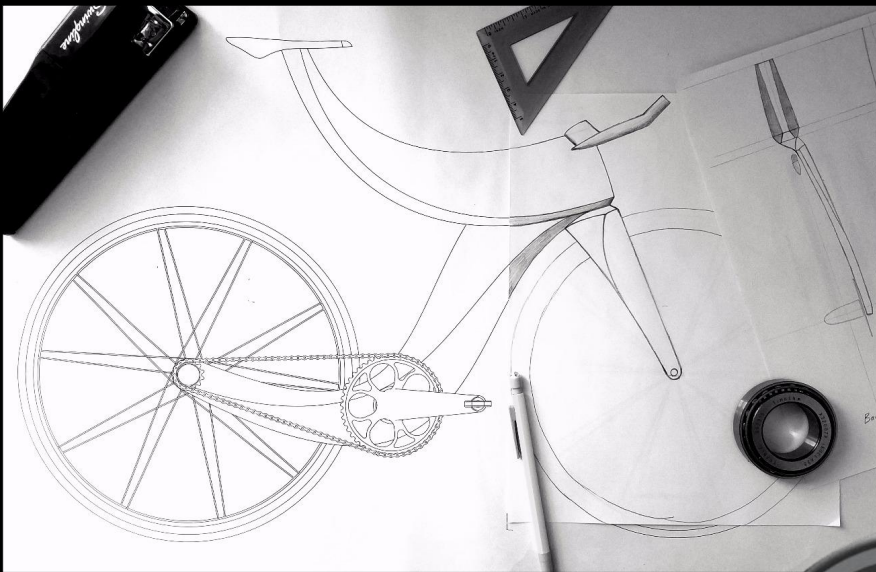




TITLE: Children's Bicycle Concepts

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.





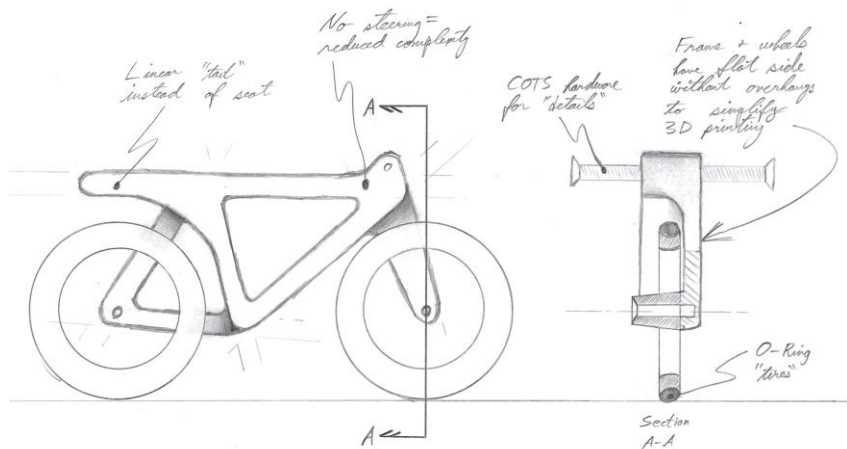
TITLE: Children's Toys

OBJECTIVE: Various CNC machined and traditionally handcrafted wooden toys



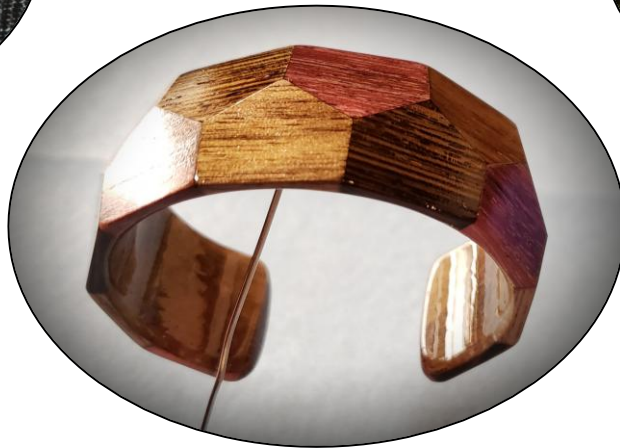
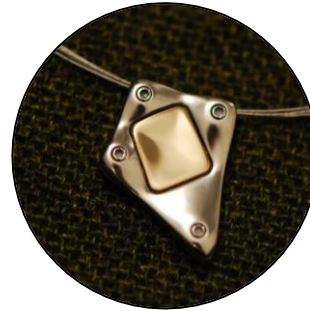
TITLE: Toy Bicycle

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.

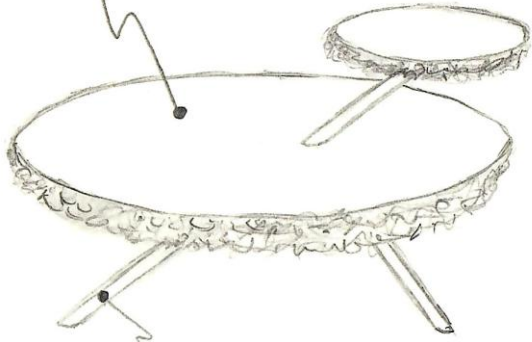


TITLE: Jewelry

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



Iron legs

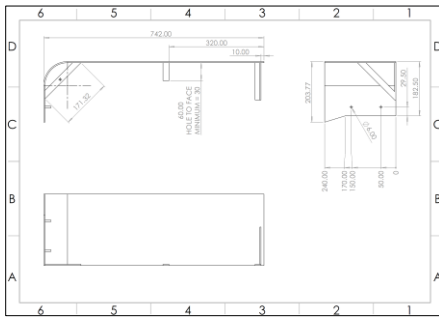
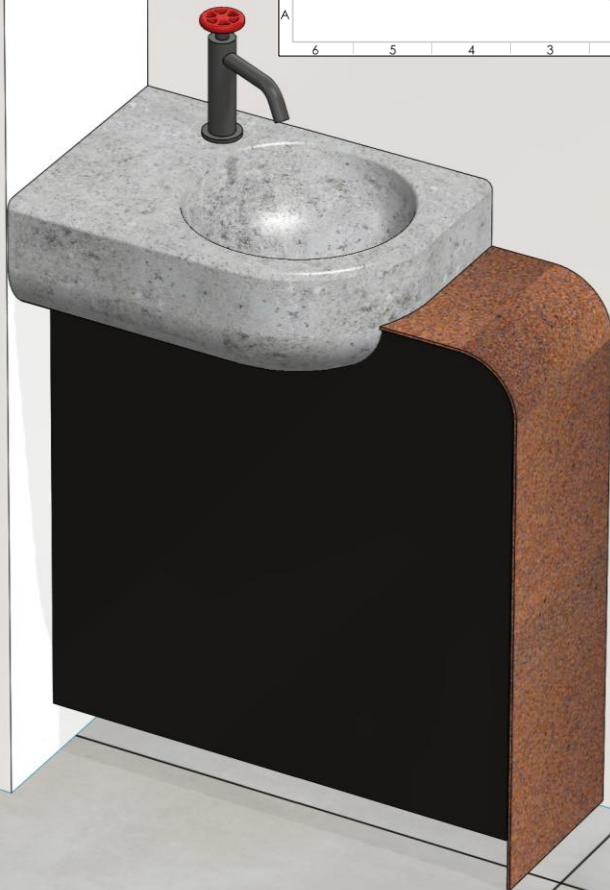
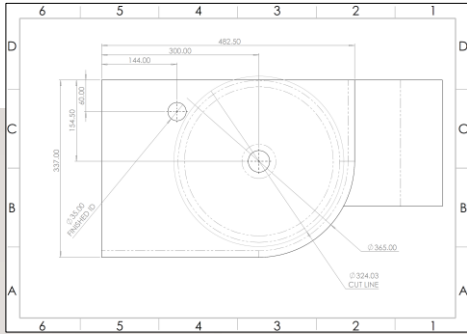


TITLE: Sliced Meteor Accent Table

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.



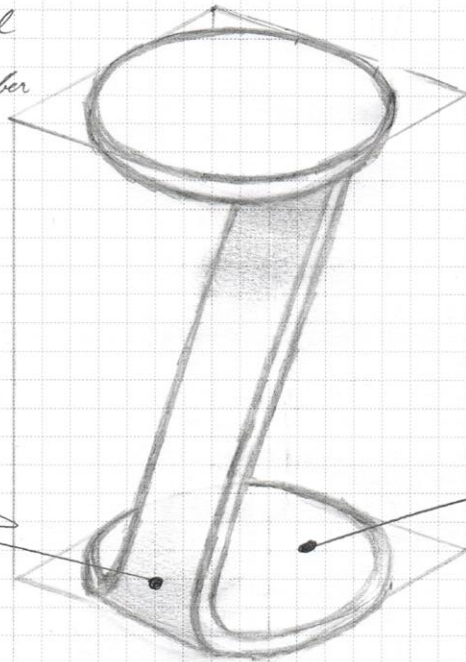
TITLE: Breakfast Bar Stools

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



TITLE: Furniture Concepts

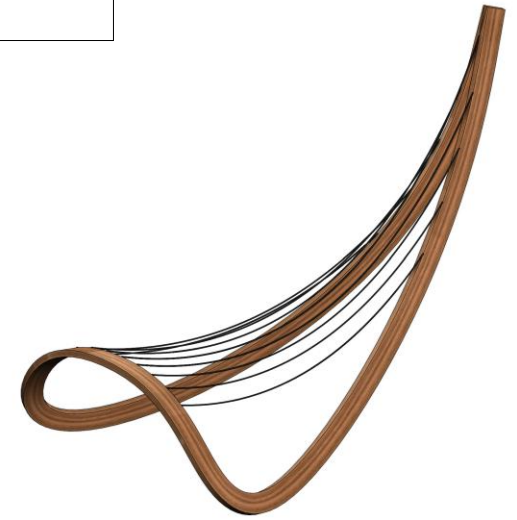
OBJECTIVE: Design studies of various forms & materials.



wood bench
with steel legs



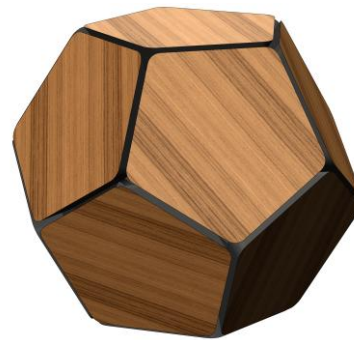
glass coffee table with
kerf-bent wood leg



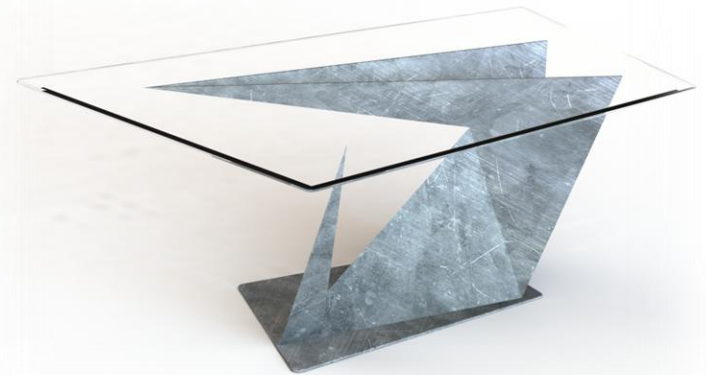
rocking chair with
steam-bent wood & cord



marble table
with steel legs



dodecahedron lamp



glass table with
faceted steel support

TITLE: Living Room Reconstruction

OBJECTIVE: Part of an entire house redesign and build project which involved architectural design, replacing a structural wall with steel beams to support a 40,000 pound load, and extensive hand fabricated architectural concrete and tensioned steel cables.

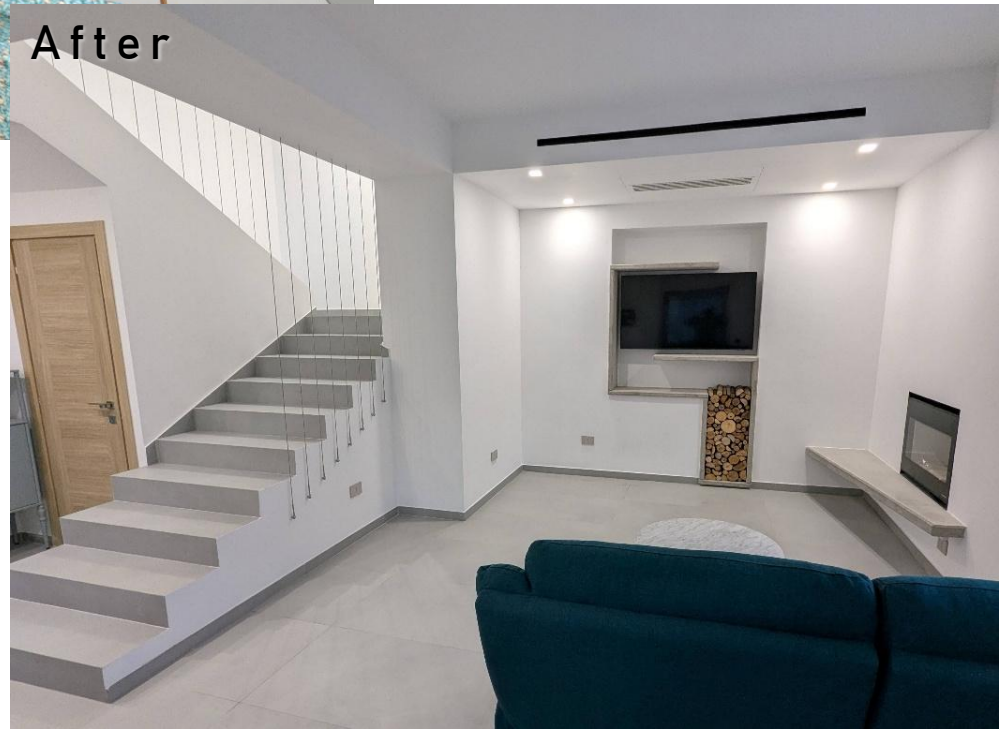
CAD Model



Before



After



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.

