

Ryan McNair

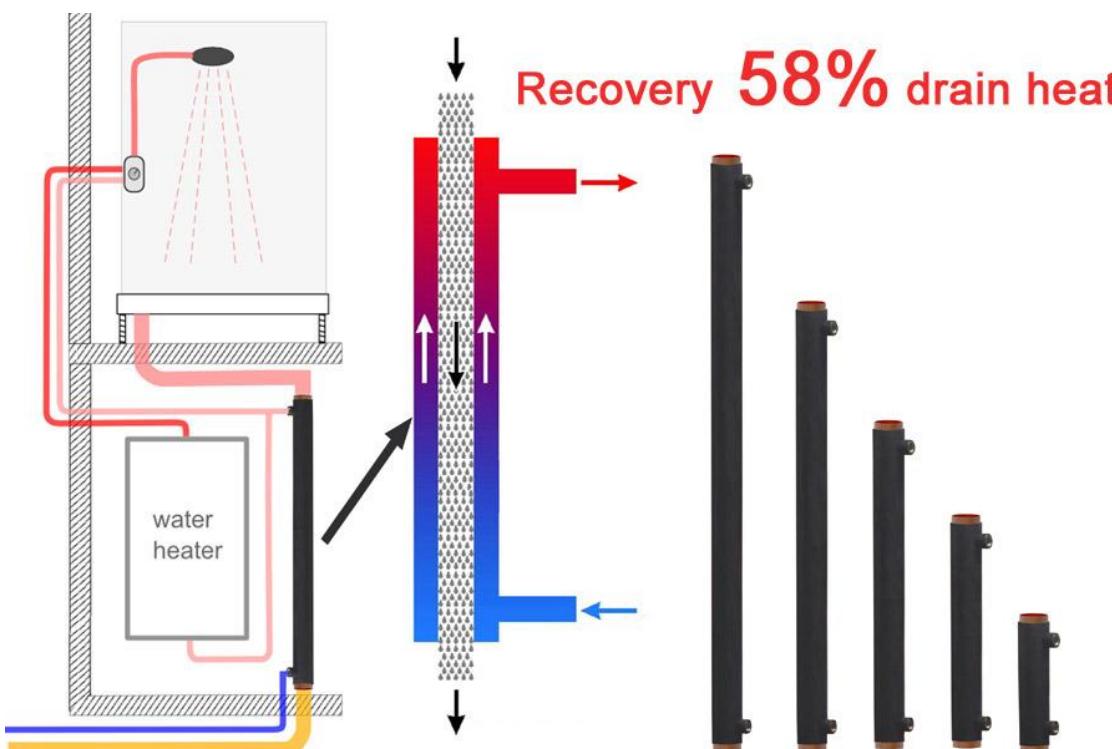
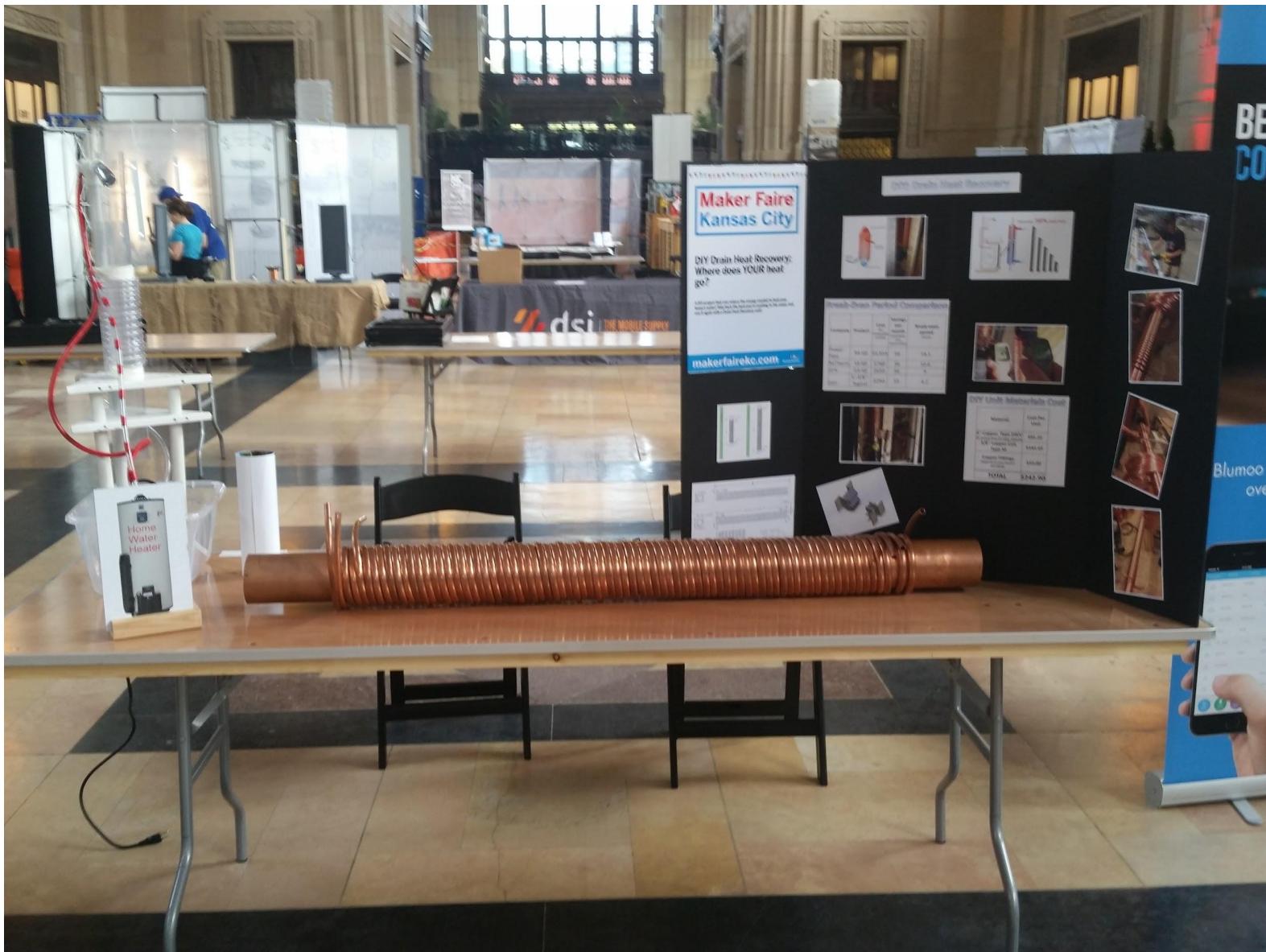
Project Portfolio

Maker Projects



**Maker Faire KC
2016 - 2017**
Egg Drop Challenge
30' Tower
400+ eggs
Electronic release

Collaboration with
Phil Liming,
Eric Pritz



**Maker Faire KC
2015**
Drain water heat
recovery system

Copper prototype

Plastic model with
running water

Collaboration with
Phil Liming,
Eric Pritz

Shop Dust Gauge

Wed 12/17/14 21:52:13 68F 2 hours

Max= 200

Last= 0

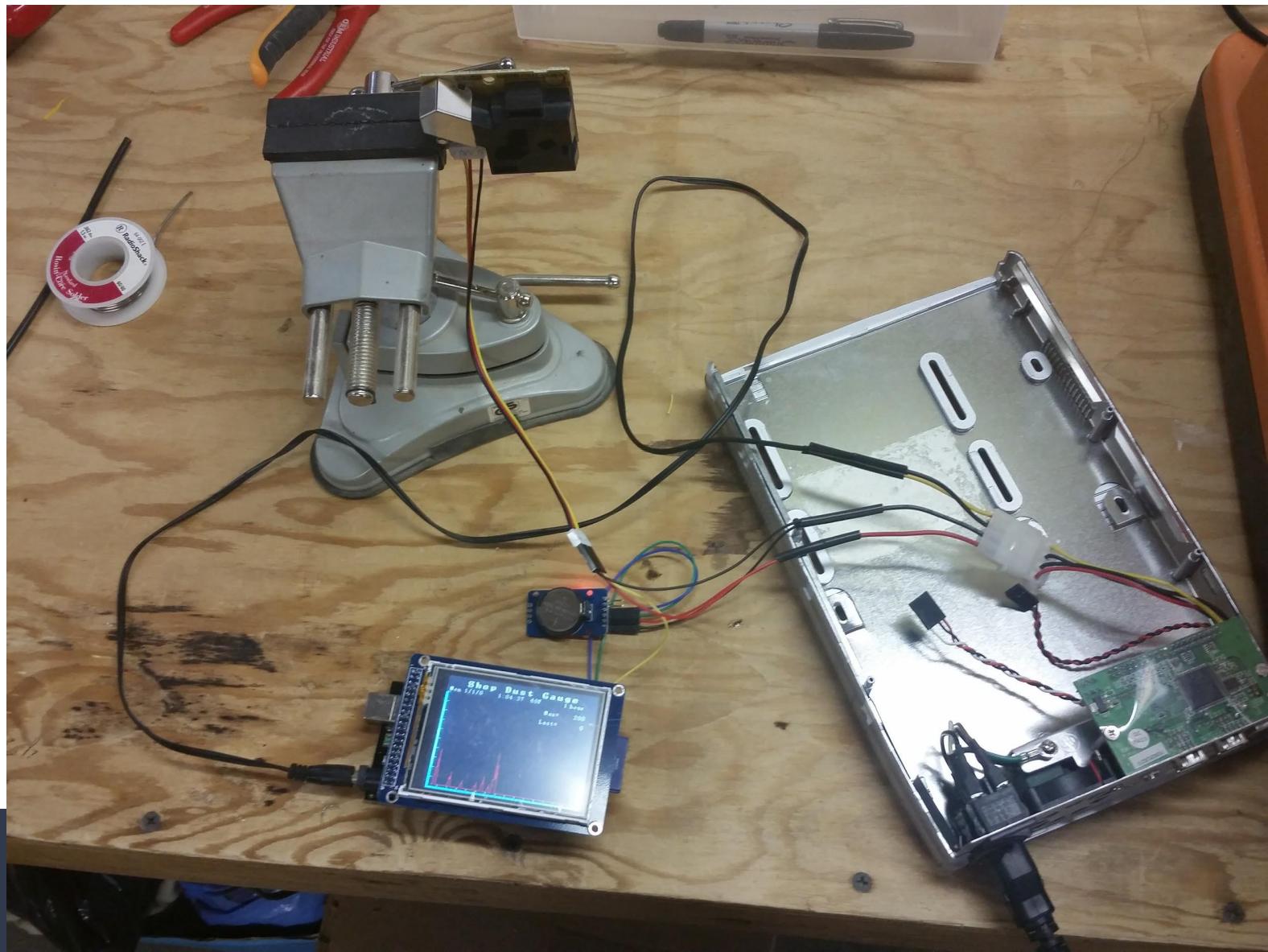


Dust Particle Sensor

Arduino test project

Functional POC

Collaboration with
Gary Liming





Cones of Dunshire
300+ pieces
3D printed characters
Laser cut tokens
Water based wood dye

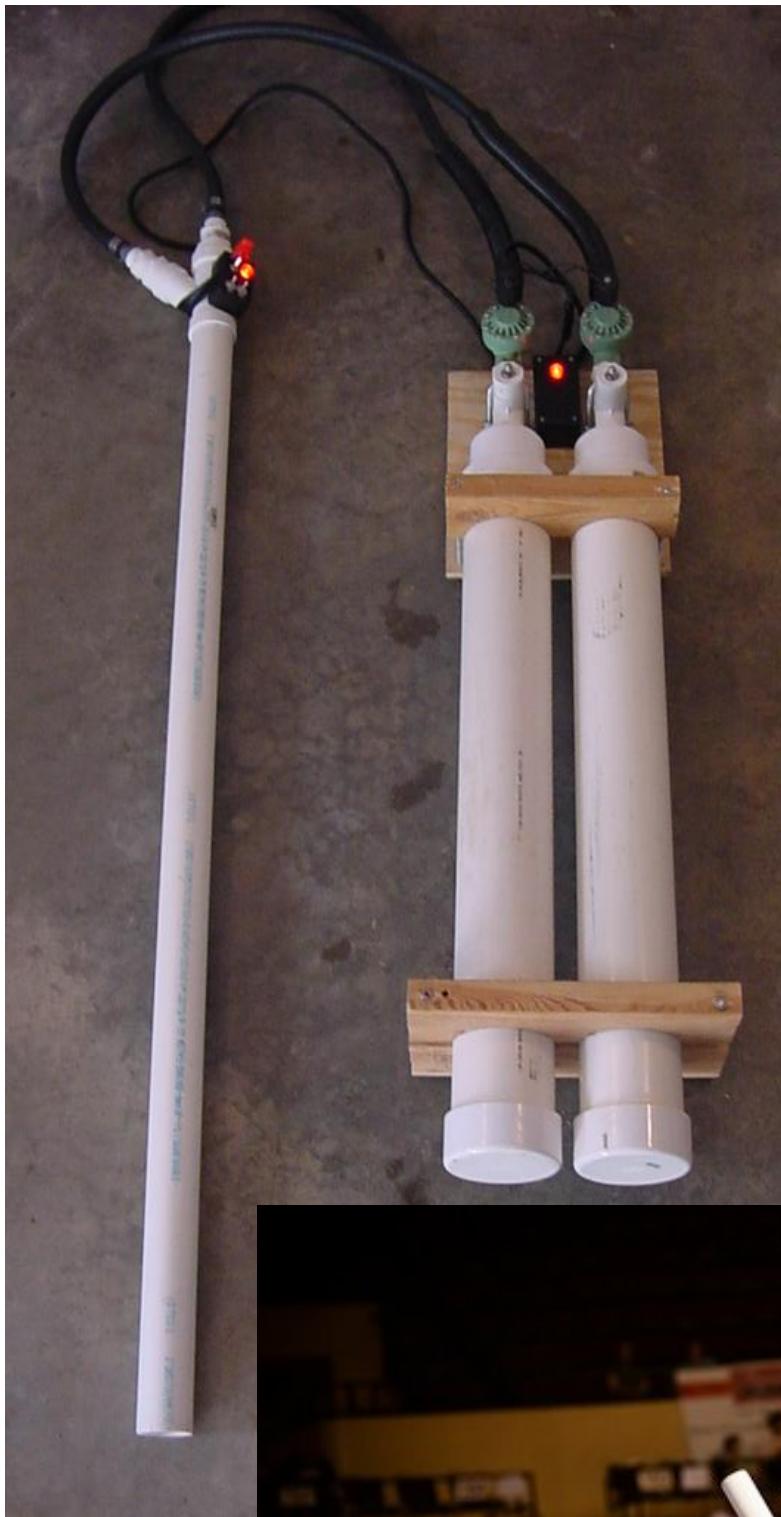
Collaboration with
Ryan Rainville



Saw Blade Storage
Stackable
CNC practice



Grinder Stand
Scrap metal
Vibration dampers
(a.k.a. Exercise weights)



Air Cannons

8+ designs
100psi max
High CFM
Potatoes, t-shirts...
Safer than combustion
1/4mi distance record



2 Story Unicorn Castle
Midnight office prank

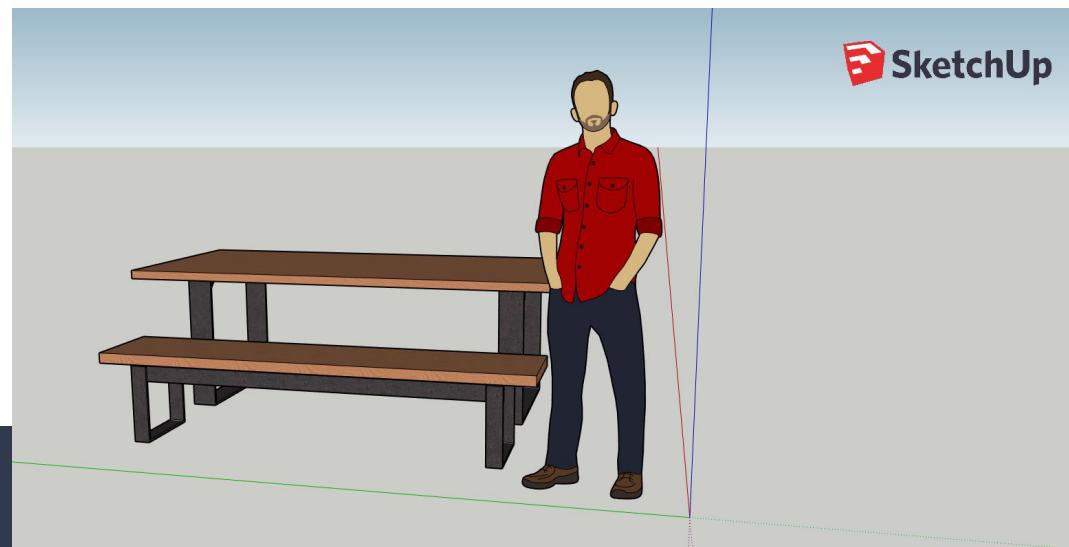




Trebuchet
Steel construction
16' tall
2000lb net weight
Transportable



McNair Woodworks





Night Stand
Set of 2
Cherry
Shellac
Wax





4 Hour Table
Large form factor
36" table height
Seats 10

Collaboration with
Phil Liming





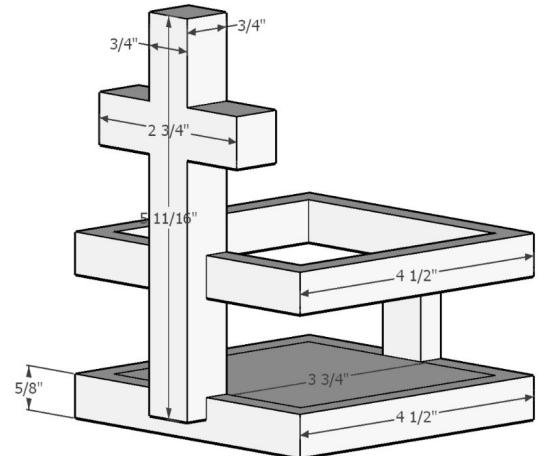
Custom proportions, 20" seat height



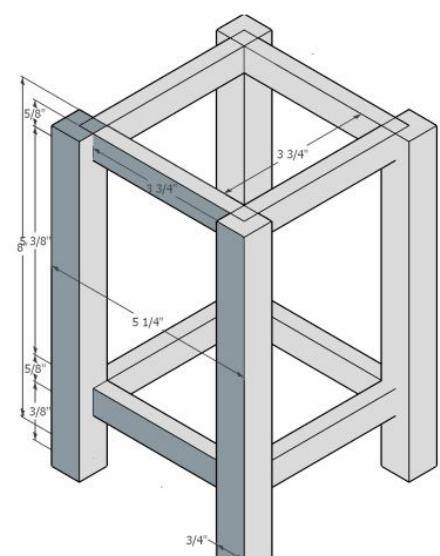
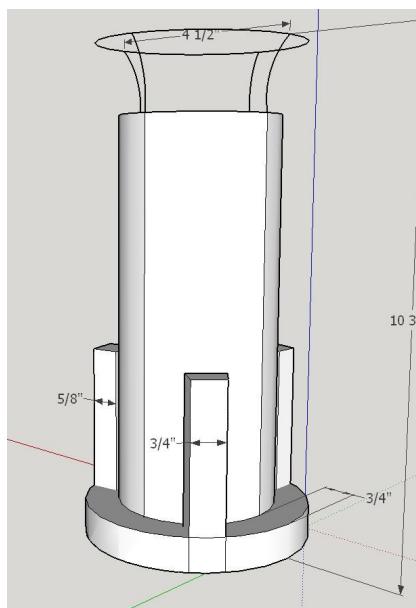
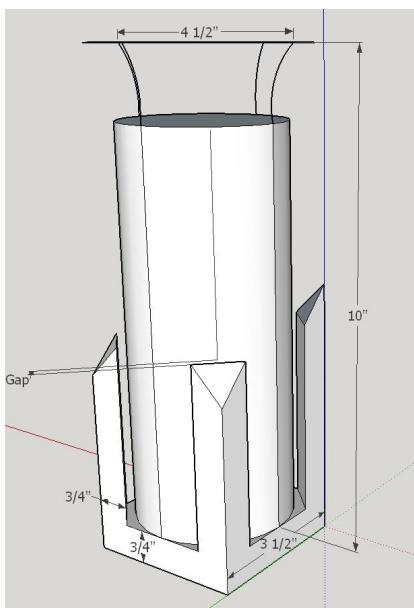
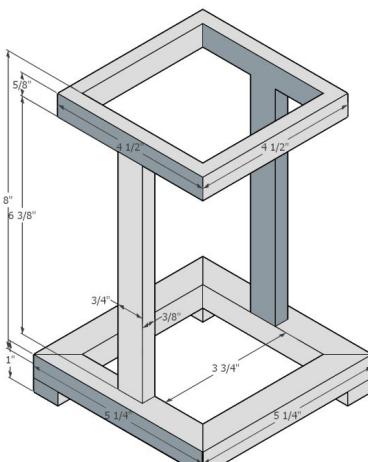


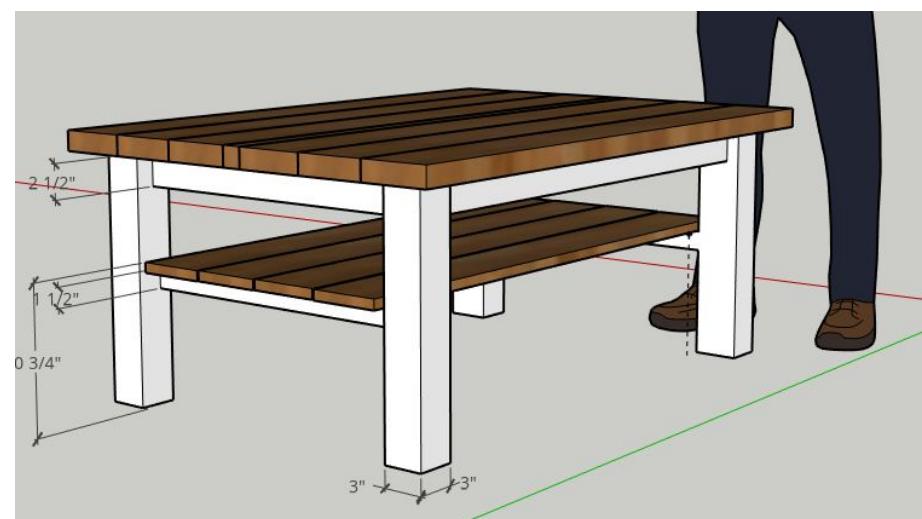
Altar Candle Holder
Missouri Red Oak
Tinted Shellac

Collaboration with
Rockhurst University



Multiple
design
proposals

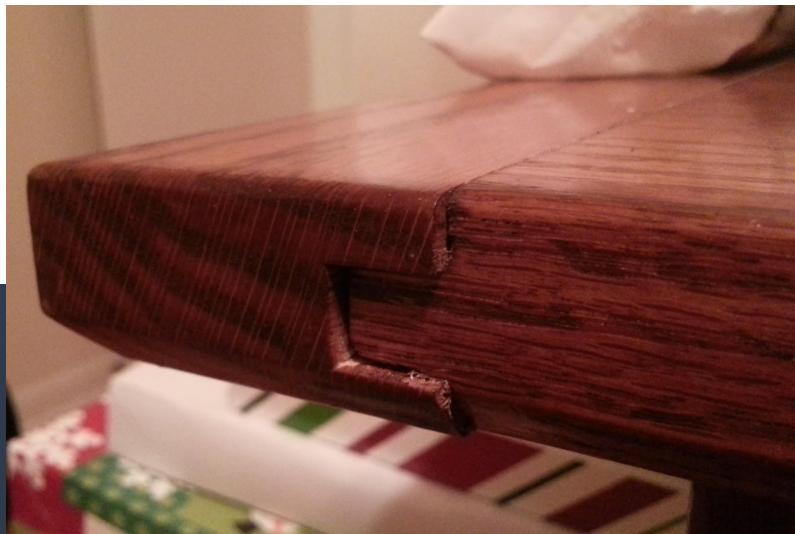




McNair Farms Barnwood Coffee Table
Reclaimed barnwood
Polyurethane



Torsion Box Workbench
Stays flat
Back panel is second torsion box
Perfect square reference
Sacrificial top skin
600lbs



Desk top
Missouri Red Oak
Breadboard ends
Ready to finish
60" x 42"



Cajon drum
Birch and Cherry laminate
Polyurethane
Internal snare

Collaboration with
Aaron Williamson



Small side table
Missouri Red Oak
Tinted shellac, polyurethane

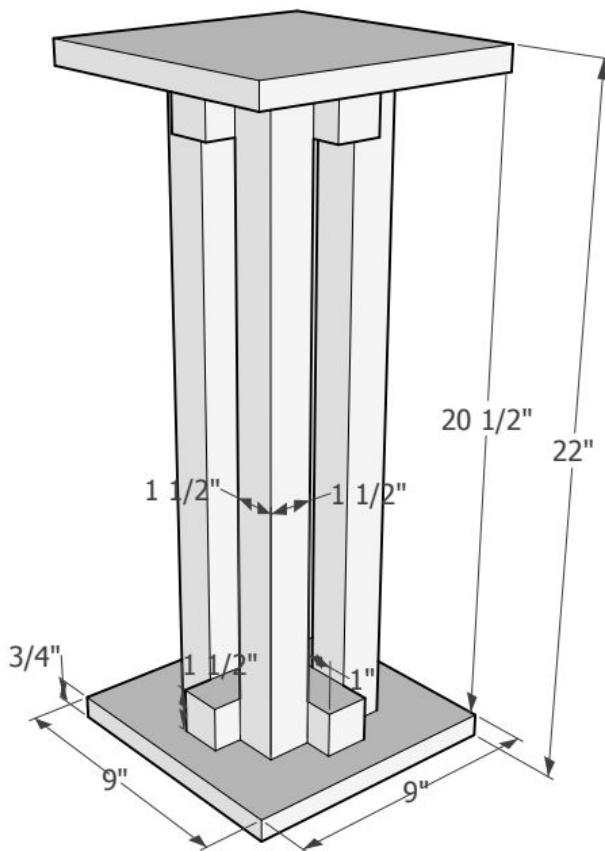
Collaboration with
Rockhurst University



Original



Reproduction





Clothes hamper
Set of 2
Cherry
Shellac and wax

Collaboration with
Kate McNair

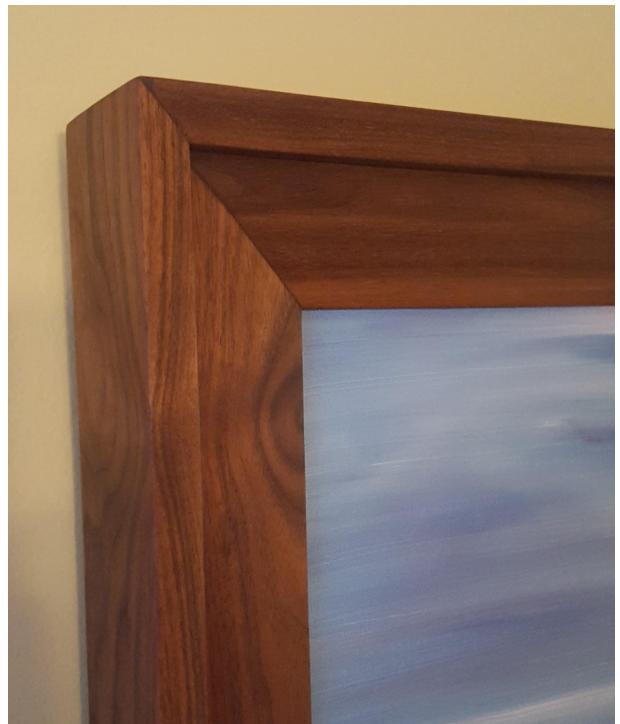
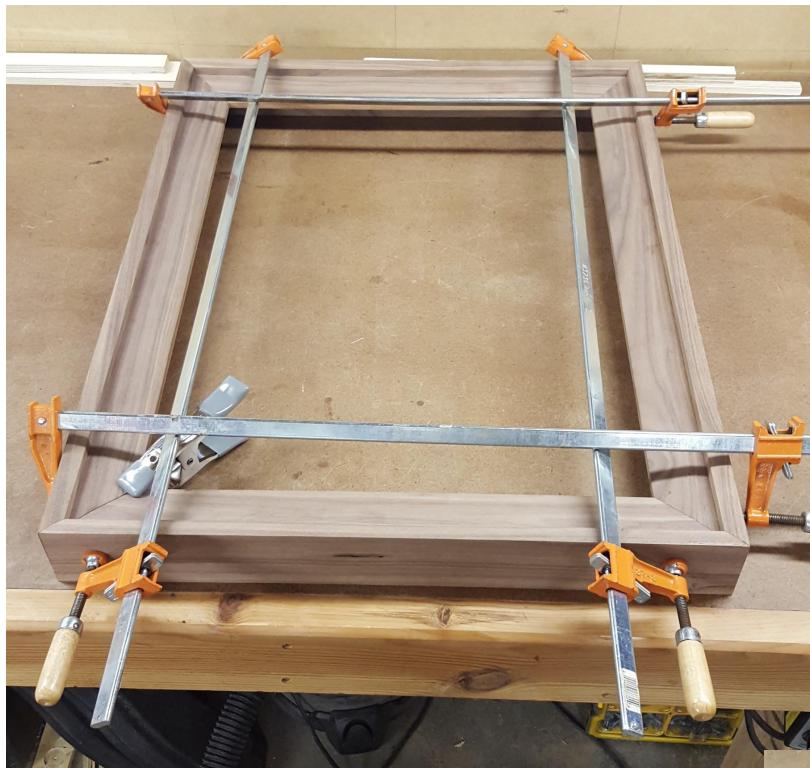


Mission End Table
Red Oak
Polyurethane





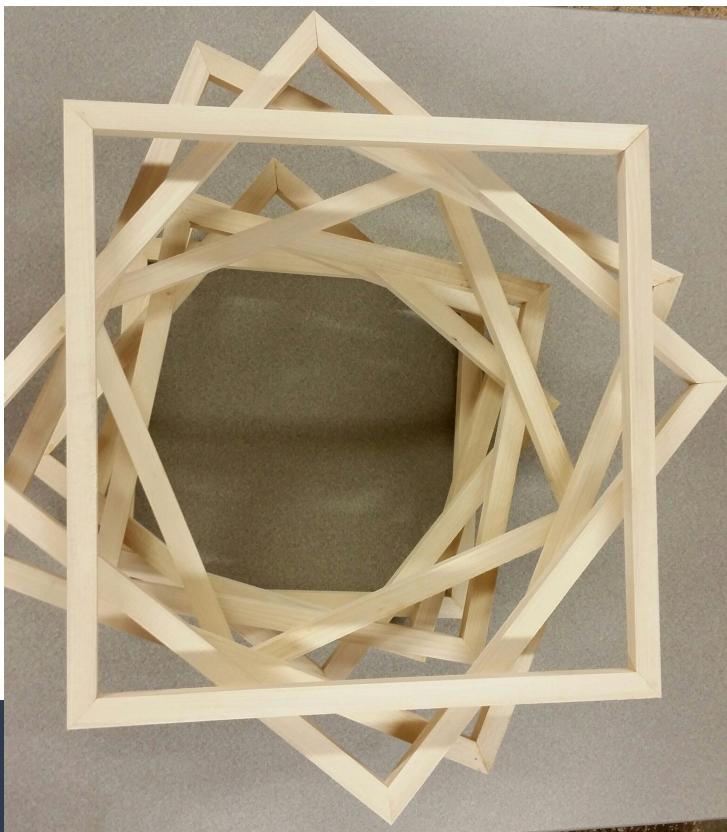
Stretched Canvas and Frame
Walnut Collaboration with
Wax finish Michael Molick





64 Small Frames
Poplar
Acrylic

Collaboration with
Coasters to Coasters





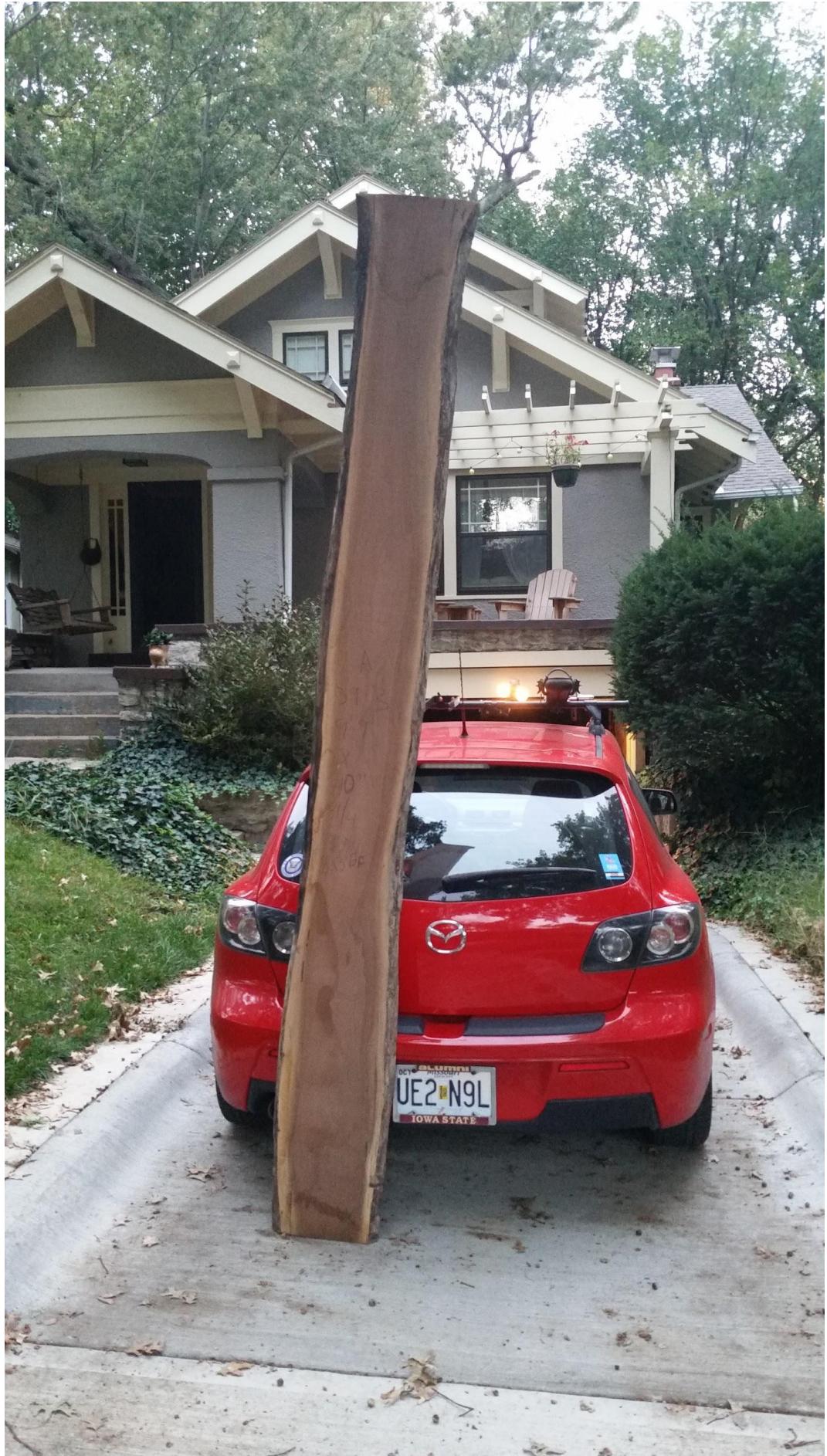
Floating Canvas Frame
Missouri Red Oak
Black stain
Black wax

Collaboration with
Chris Mallams





The Family Tree
Cutting board set
Missouri Walnut
Beeswax





Frank Lloyd Wright inspired shelf
Red Oak
Shellac





Shipping crate
Pallet wood (proper use)





Knife block
Maple
Paduk
Beeswax

Collaboration with
Kilmarnock West
Custom Knives





Merchandise Stands

Various materials

Collaboration with
Patricia McManus Design





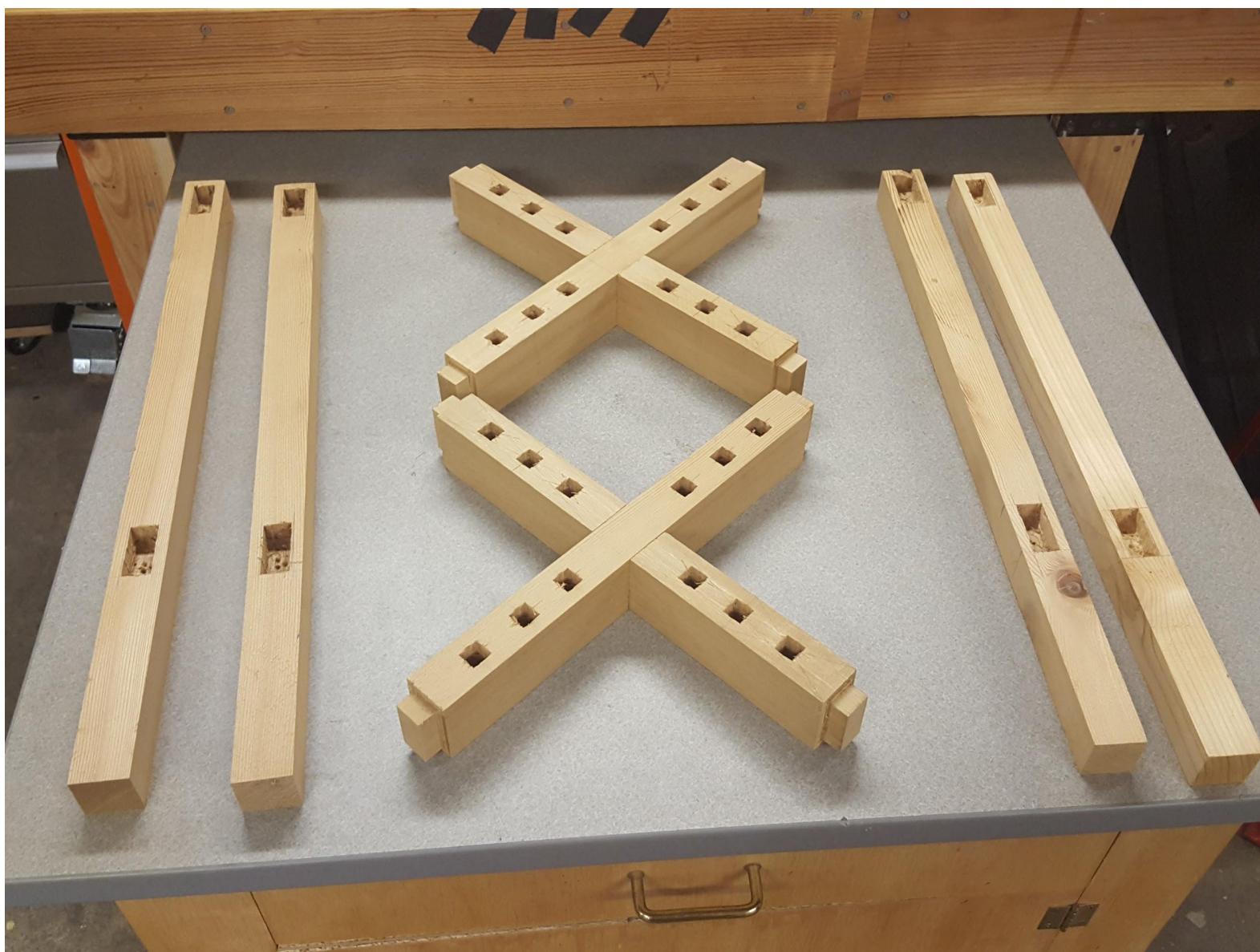
Merchandise Stands
Various materials

Collaboration with
Emily Bordner



Outdoor table
Set of 2
Cedar
Waterproof sealant

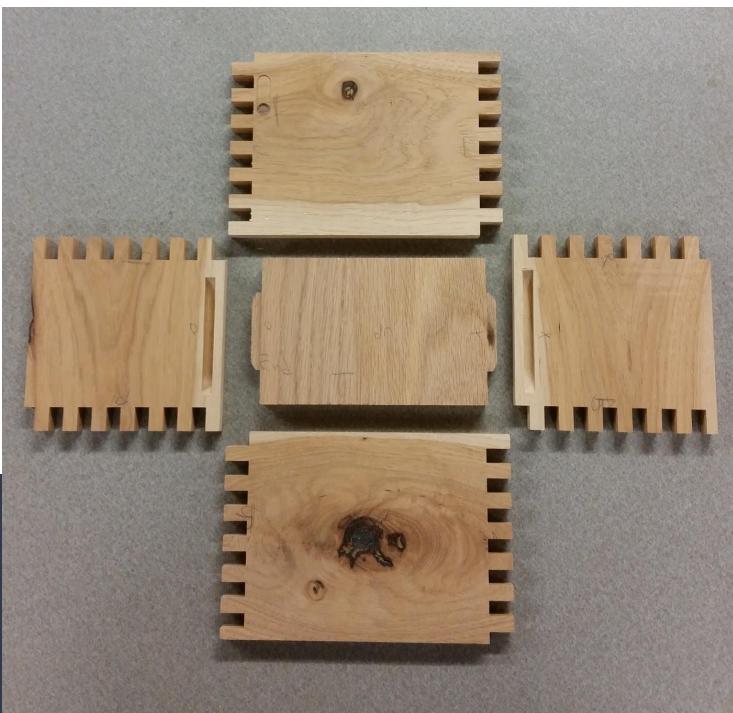
Design by
Dave Kraatz





Paint rack
Removable cover
Red Oak
Polyurethane

Collaboration with
Christos Sofianopoulos



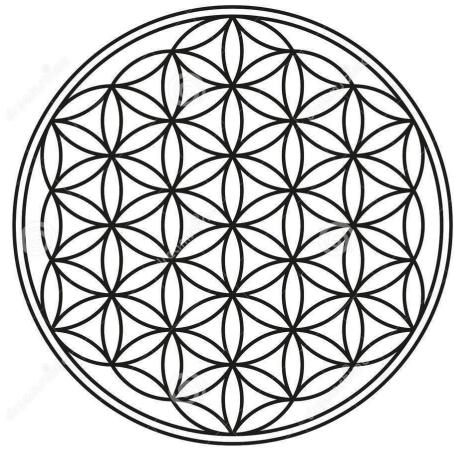
Recipe box
Hickory
Acrylic glaze

Collaboration with
Haley Williams



Sword Mount
Pecan
Tung oil, wax

Collaboration with
Christos Sofianopoulos





Sewing machine stand
Maple, Cherry
Urethane
Inlaid measure, collapsible

Collaboration with
Kate McNair



Construction Projects



Screened Porch

330sqft

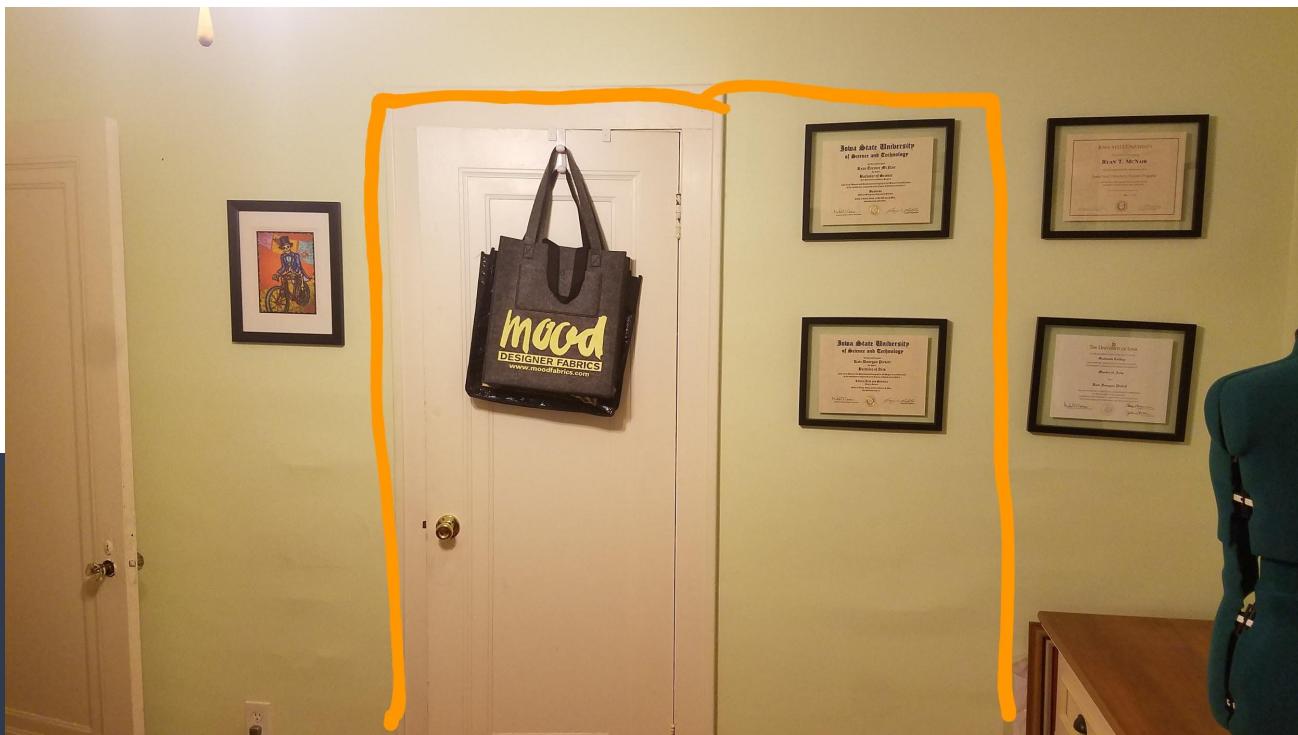
So. Much. Work.

[Photos](#)

Collaboration with
Kate McNair



Bedroom remodel
Expand closet door
Refurb windows
Crown molding
Refinish floor
Refinish all hardware







Re-grade Stairwell
16" additional height
Reinforced concrete
Waterproofed





Access ramp
Forms assembly
Gravel fill
1 yd concrete



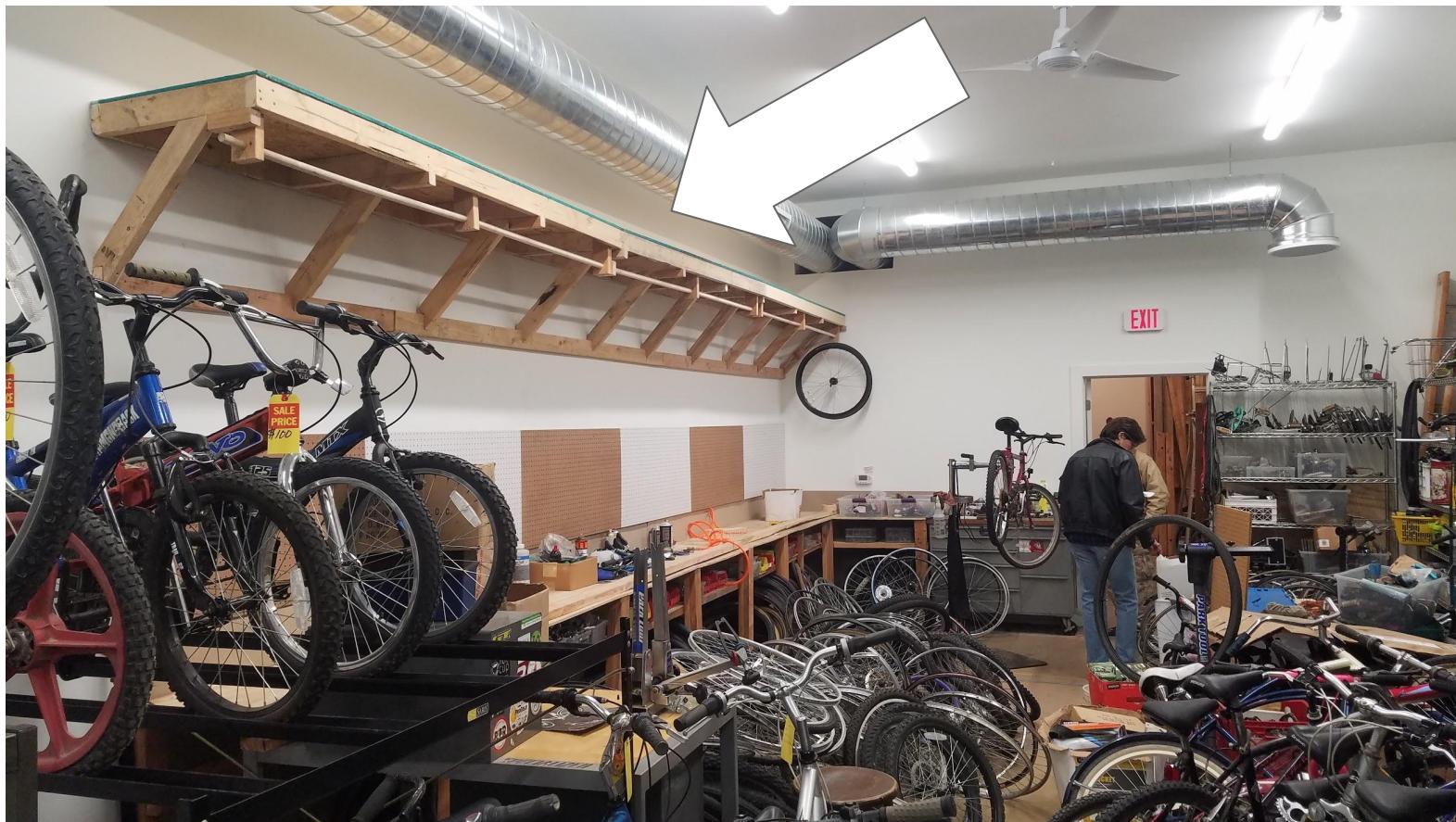
Bedroom remodel
Drywall ceiling
Refurb windows
Crown molding
Refinish all hardware





Garage header
Double W beams
Reinstall stone
Replace wood framing

Collaboration with
Greg Watters



Bike Parts Storage
Donated materials
Custom spoke hangers

Collaboration with
Revolve Bike Shop

Before





Additional storage in back room



Inspiration picture