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http://www.tanks-encyclopedia.com/coldwar/Japan/Type-61/Type
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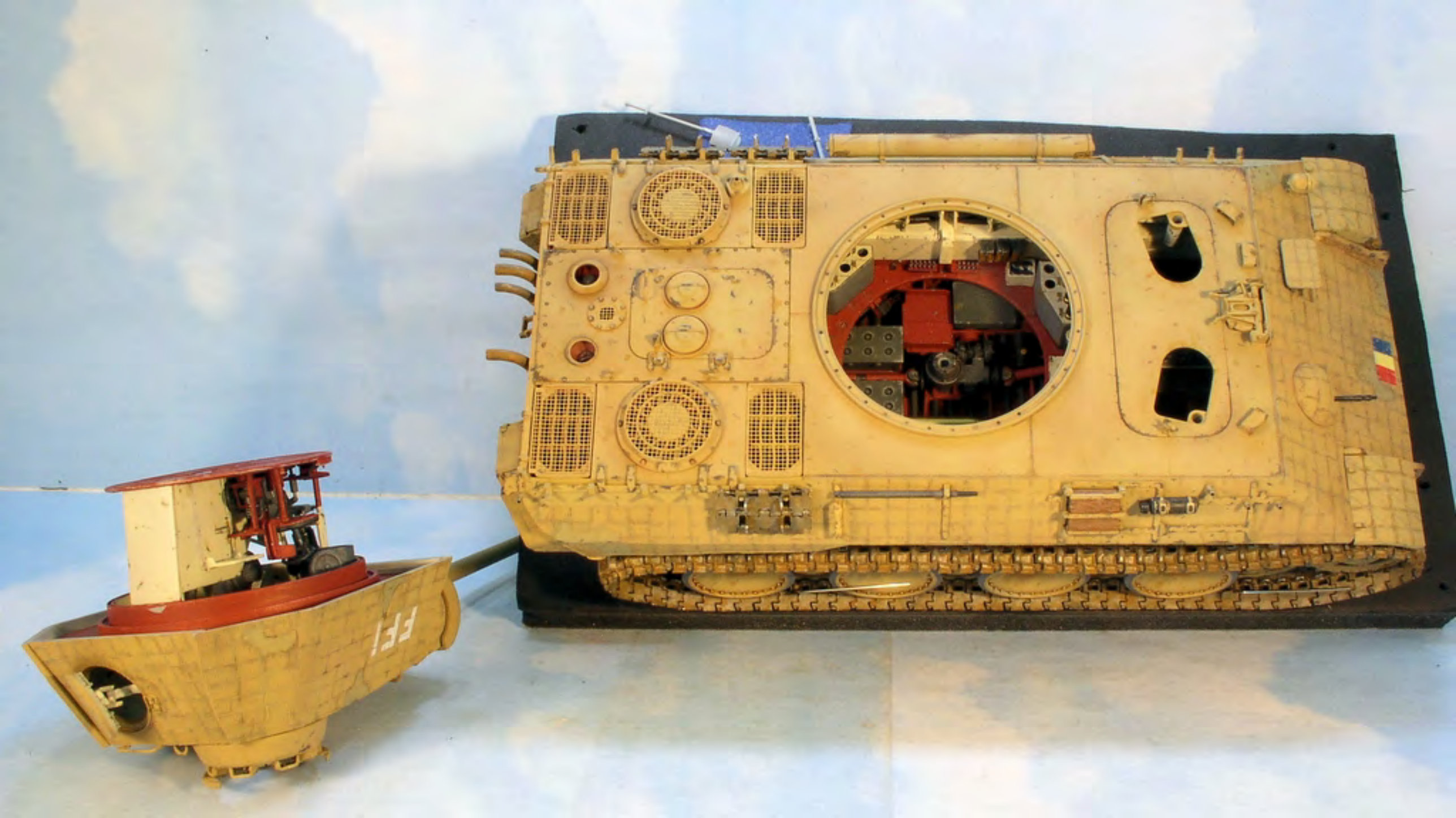

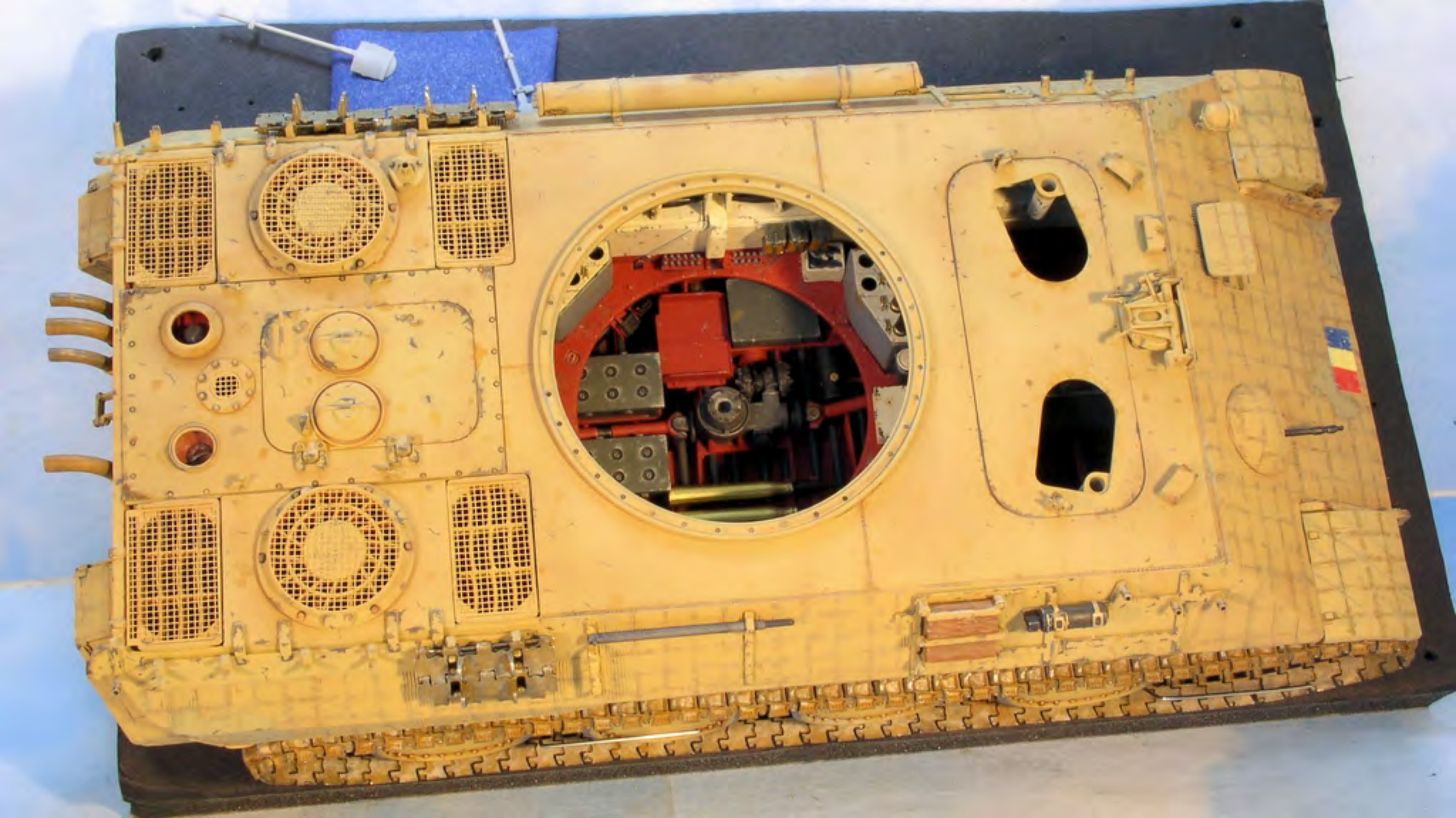


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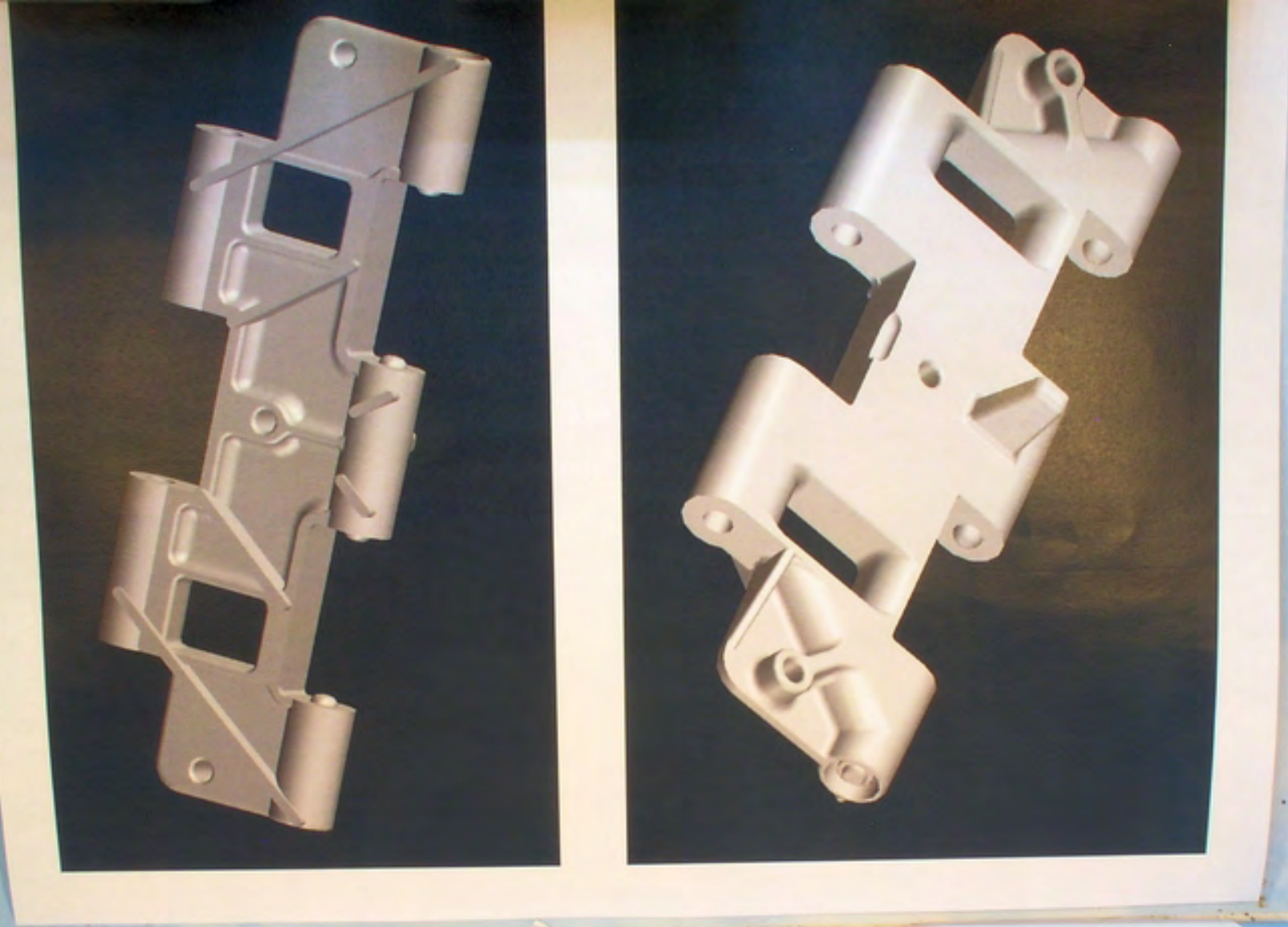
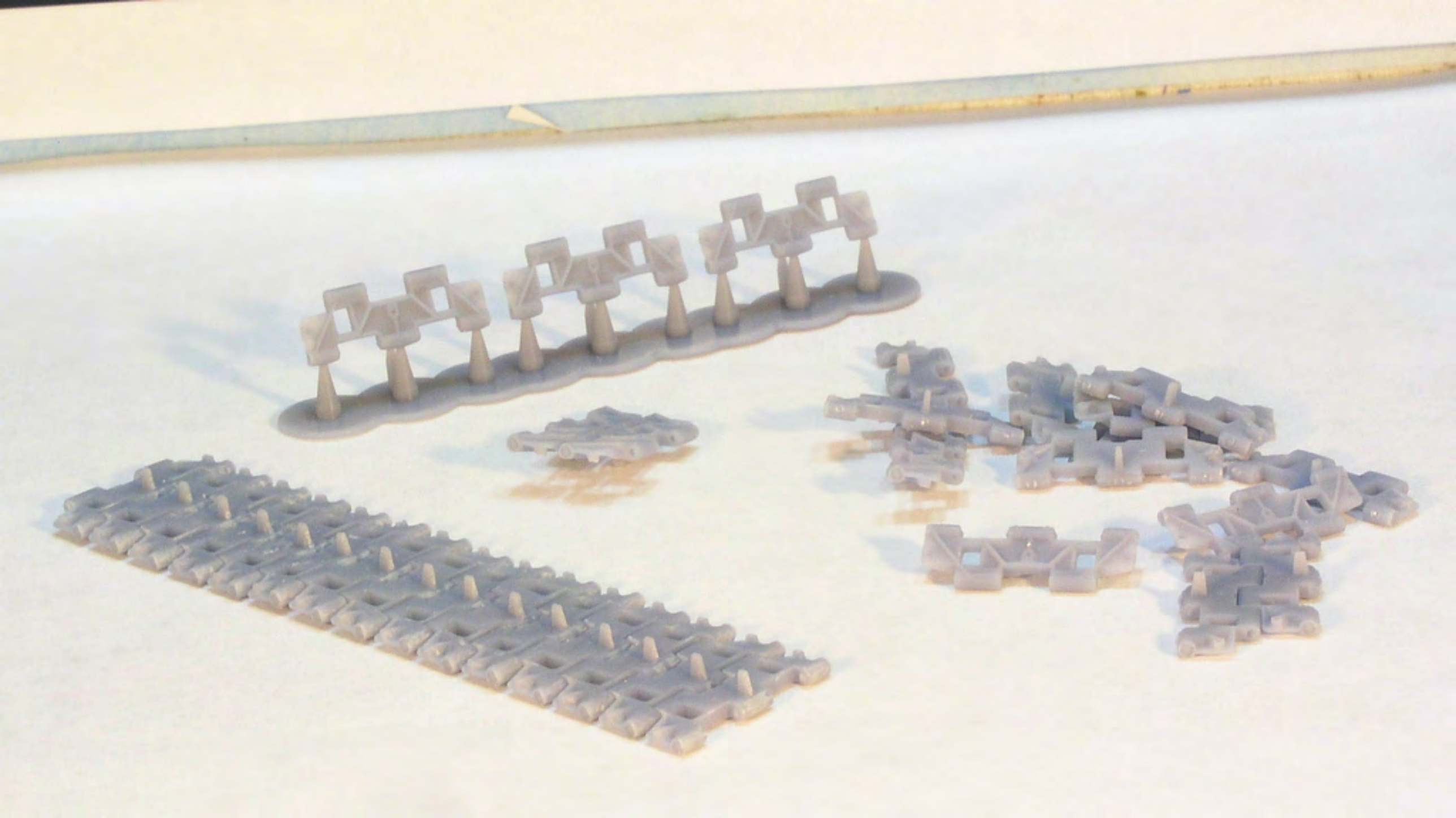
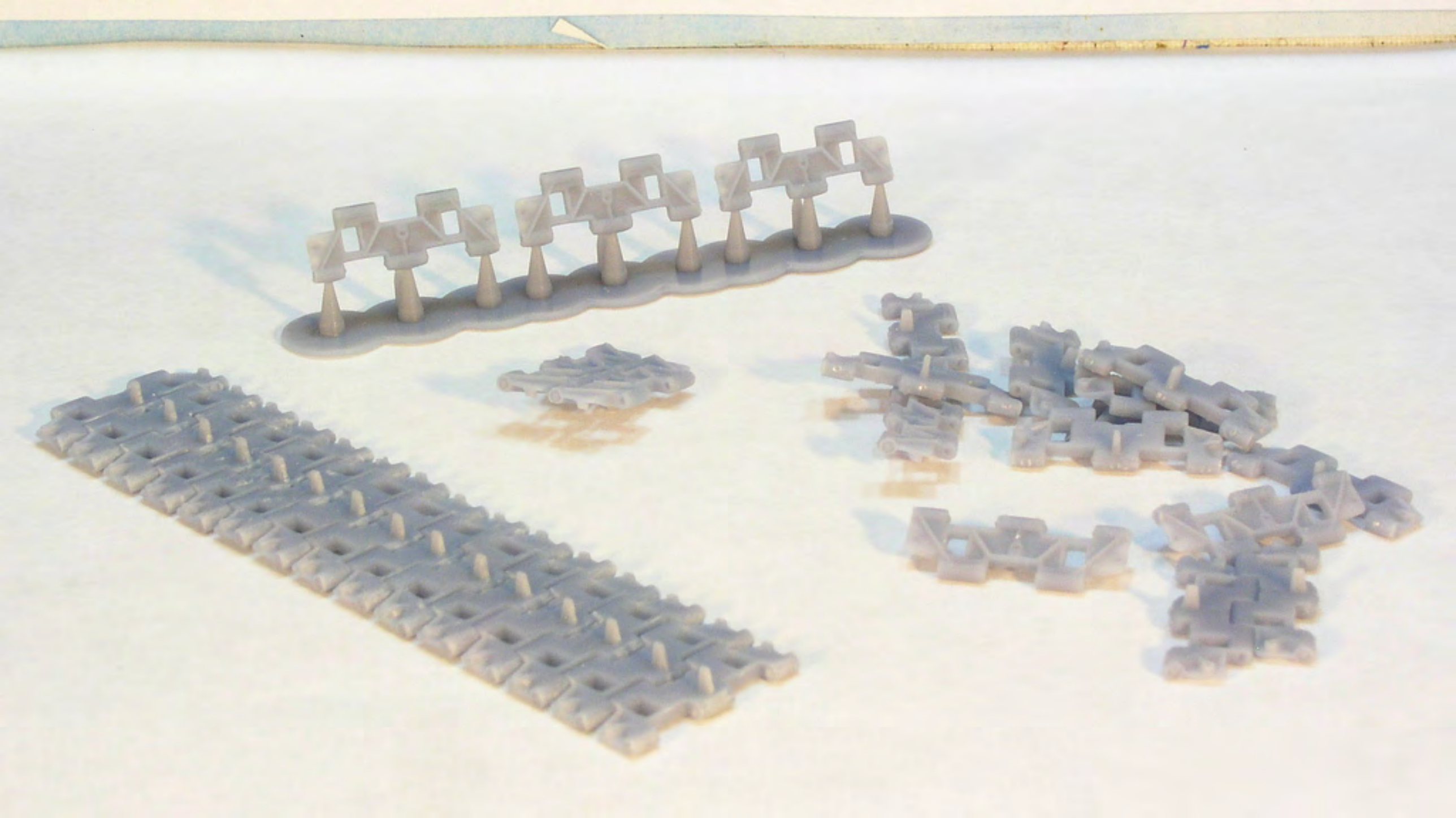
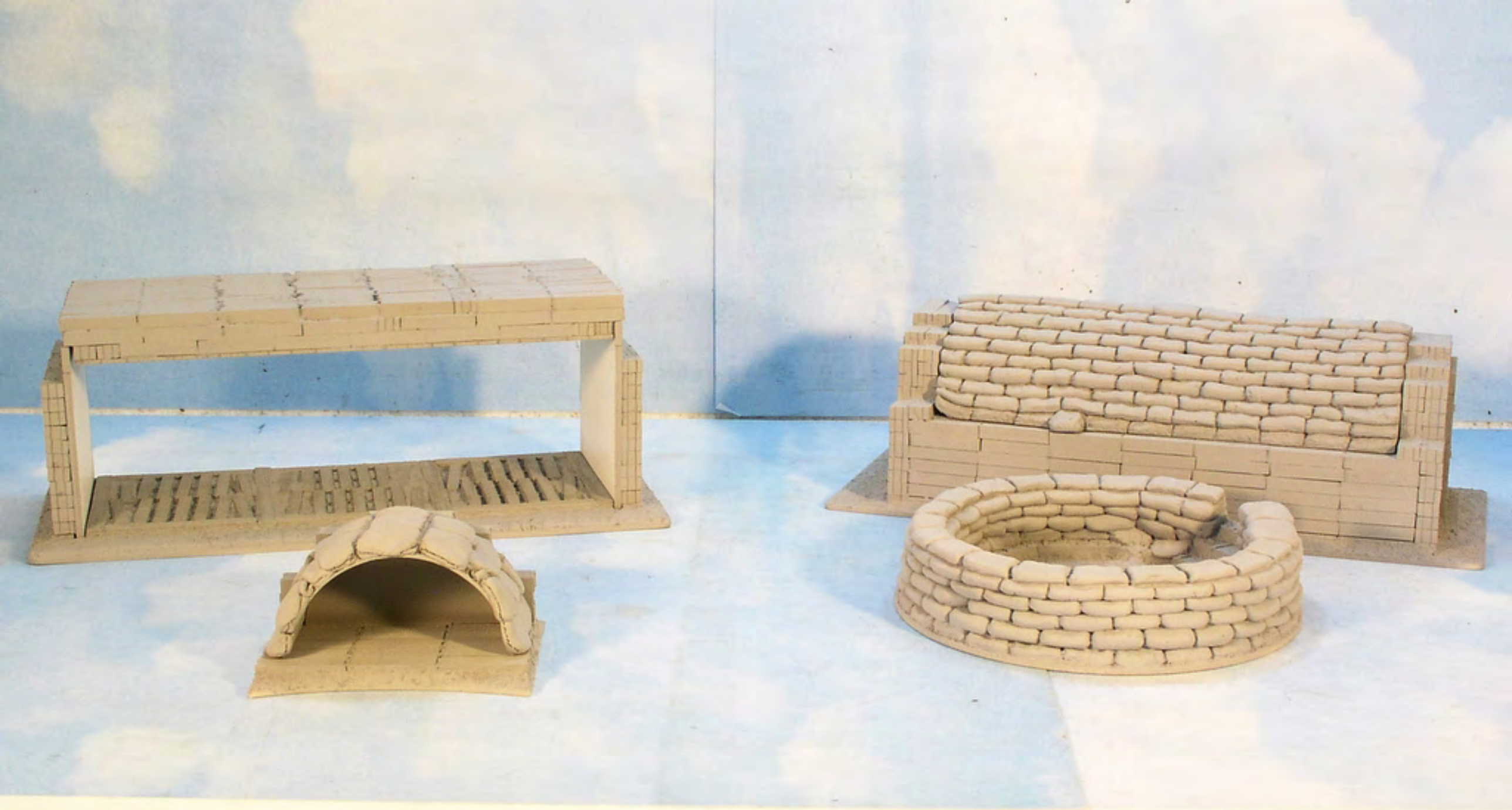
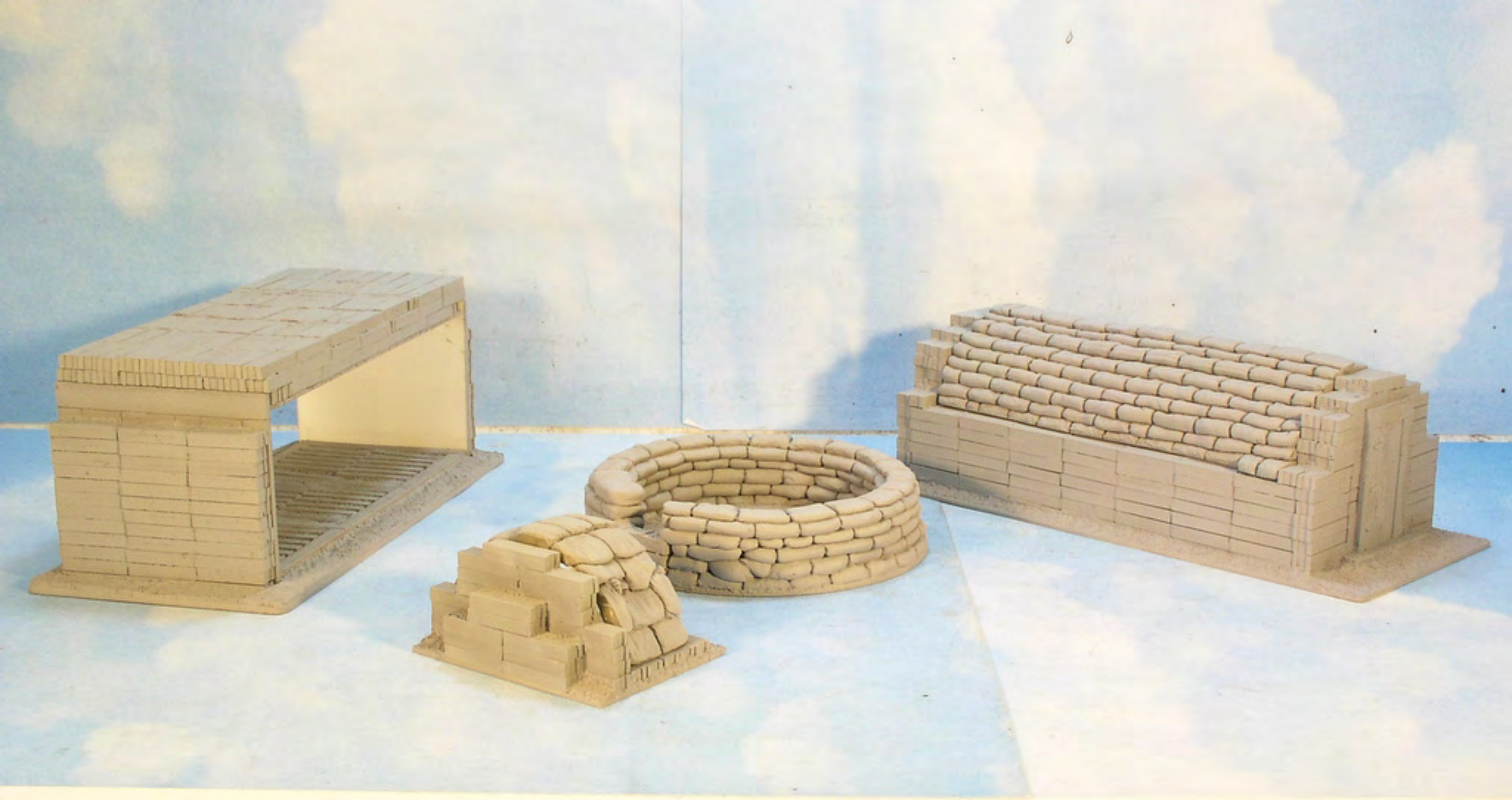


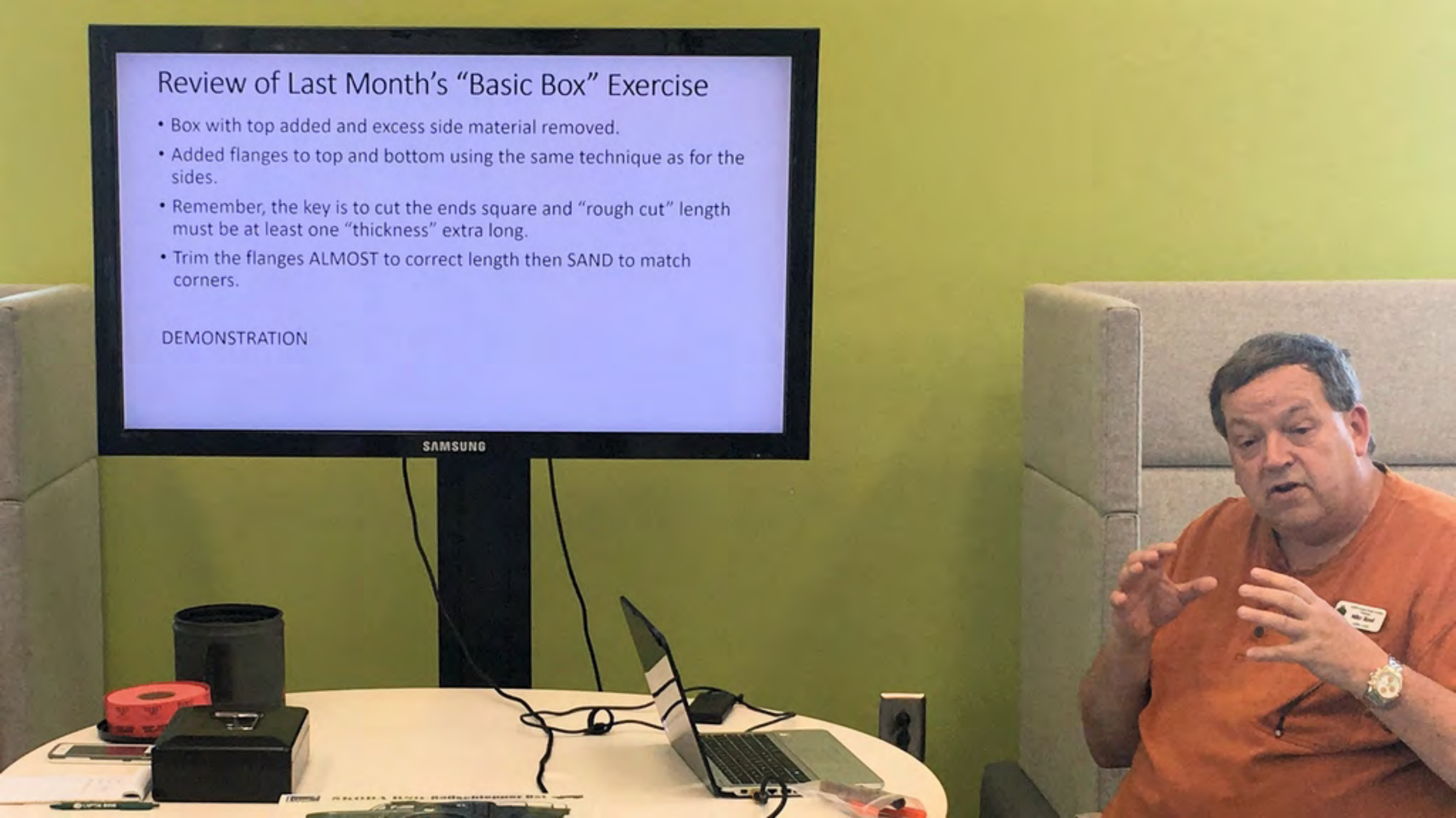


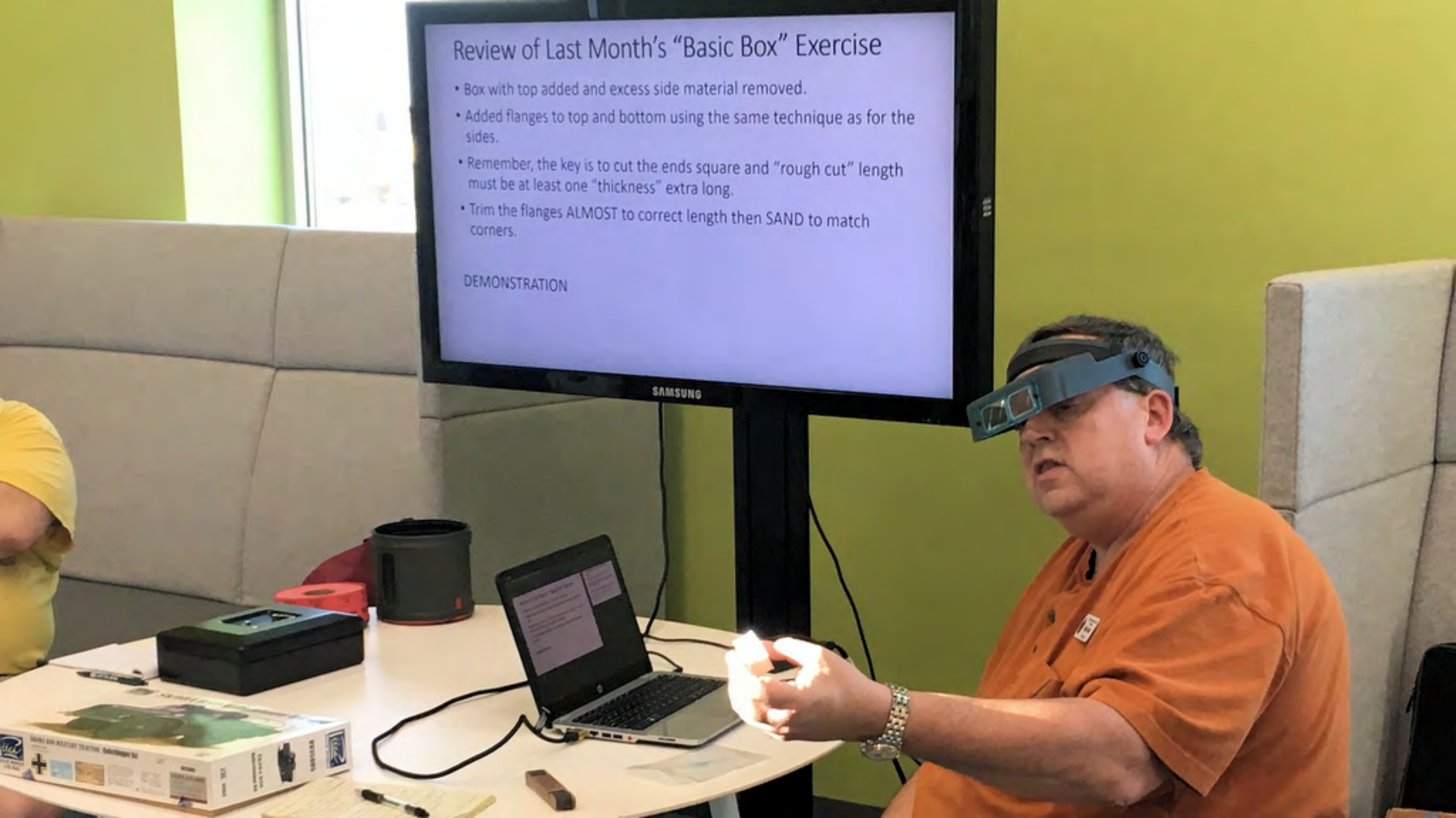







PROJECT RIPCORD
• Project is still progressing but going slow.
• We continue to host Saturday build days starting at 11:30am every Saturday.
NOTE – This week's build day is canceled! We will resume next week, 18 May.
• On Saturday, 13 APR, we will hosted a group of RIPCORD vets, along with the museum's videographer. The project was favorably received by the vets. Participation of the RIPCORD Association has opened up some new information for us.
• New Tank Rumfication masters delivered to HQ T2 for casting.


Review of Last Month's "Basic Box" Exercise
• Box with top added and excess side material removed.
• Added flanges to top and bottom using the same technique as for the sides.
• Remember, the key is to cut the ends square and "rough cut" length must be at least one "thickness" extra long.
• Trim the flanges ALMOST to correct length then SAND to match corners.
DEMONSTRATION
SAMSUNG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DEMONSTRATION
SAMSUNG


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DEMONSTRATION
SAMSUNG


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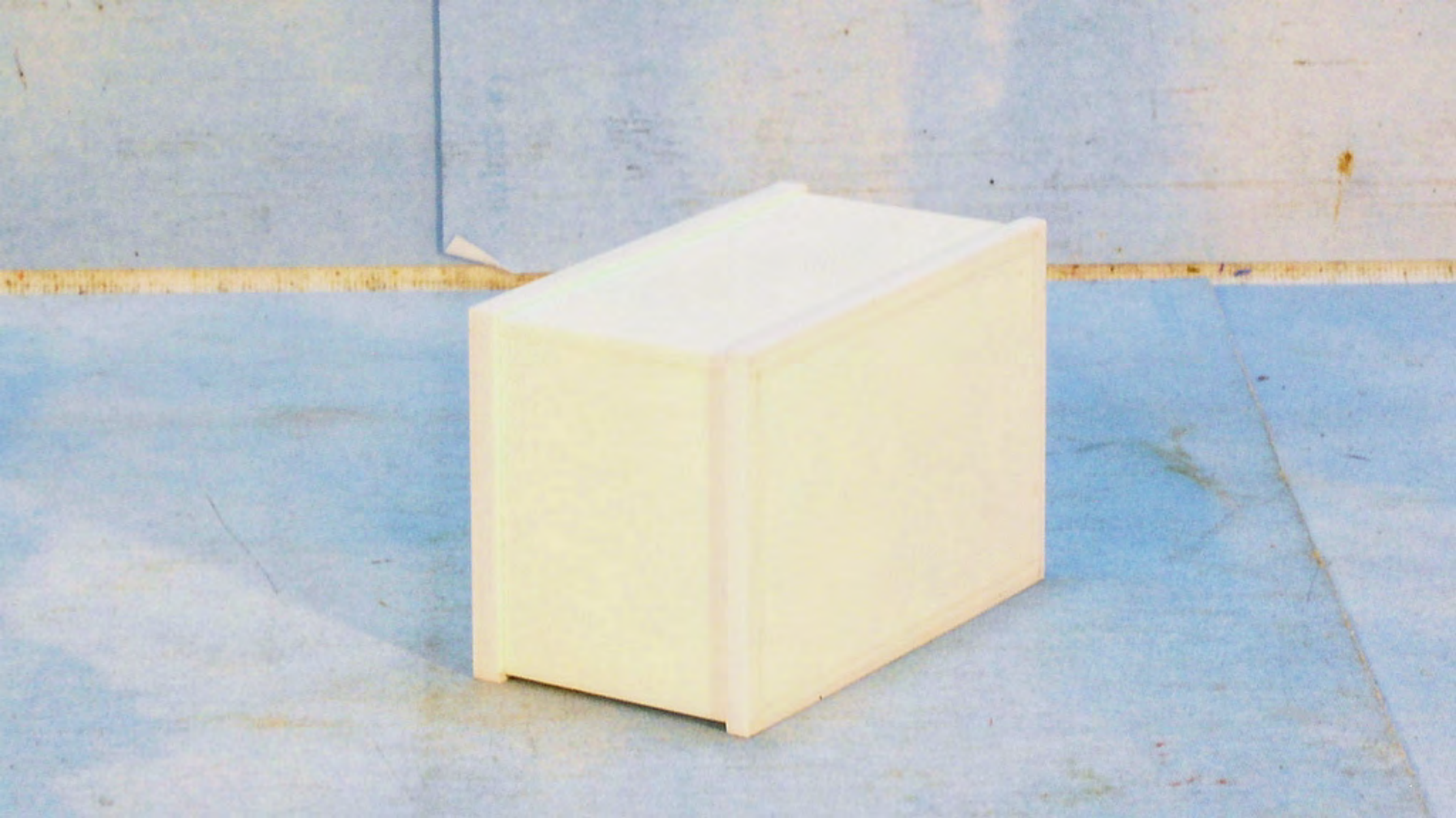

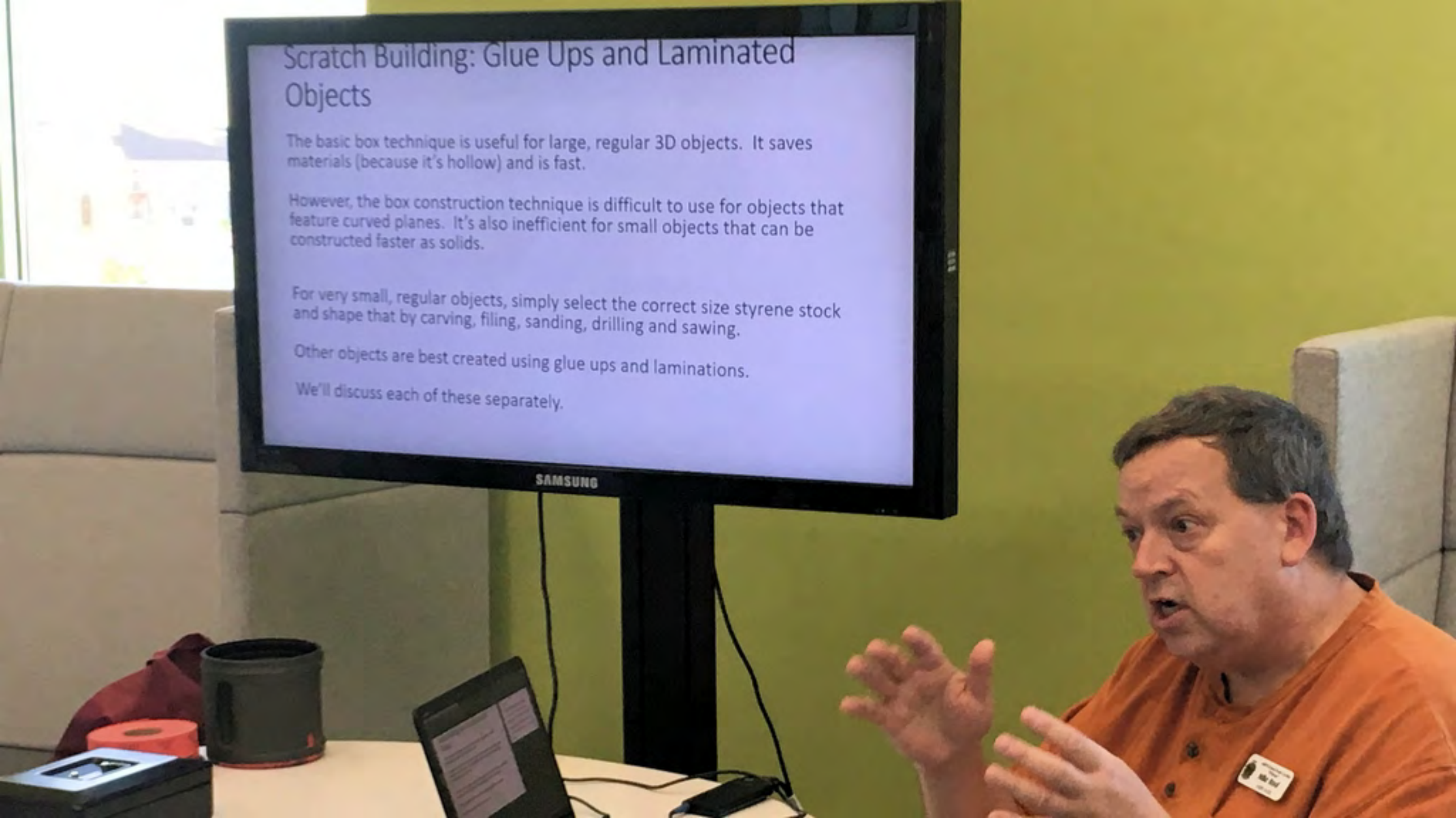
Scratch Building: Glue Ups and Laminated Objects
The basic box technique is useful for large, regular 3D objects. It saves materials (because it's hollow) and is fast.
However, the box construction technique is difficult to use for objects that feature curved planes. It's also inefficient for small objects that can be constructed faster as solids.
For very small, regular objects, simply select the correct size styrene stock and shape that by carving, filing, sanding, drilling and sawing.
Other objects are best created using glue ups and laminations.
We'll discuss each of these separately.
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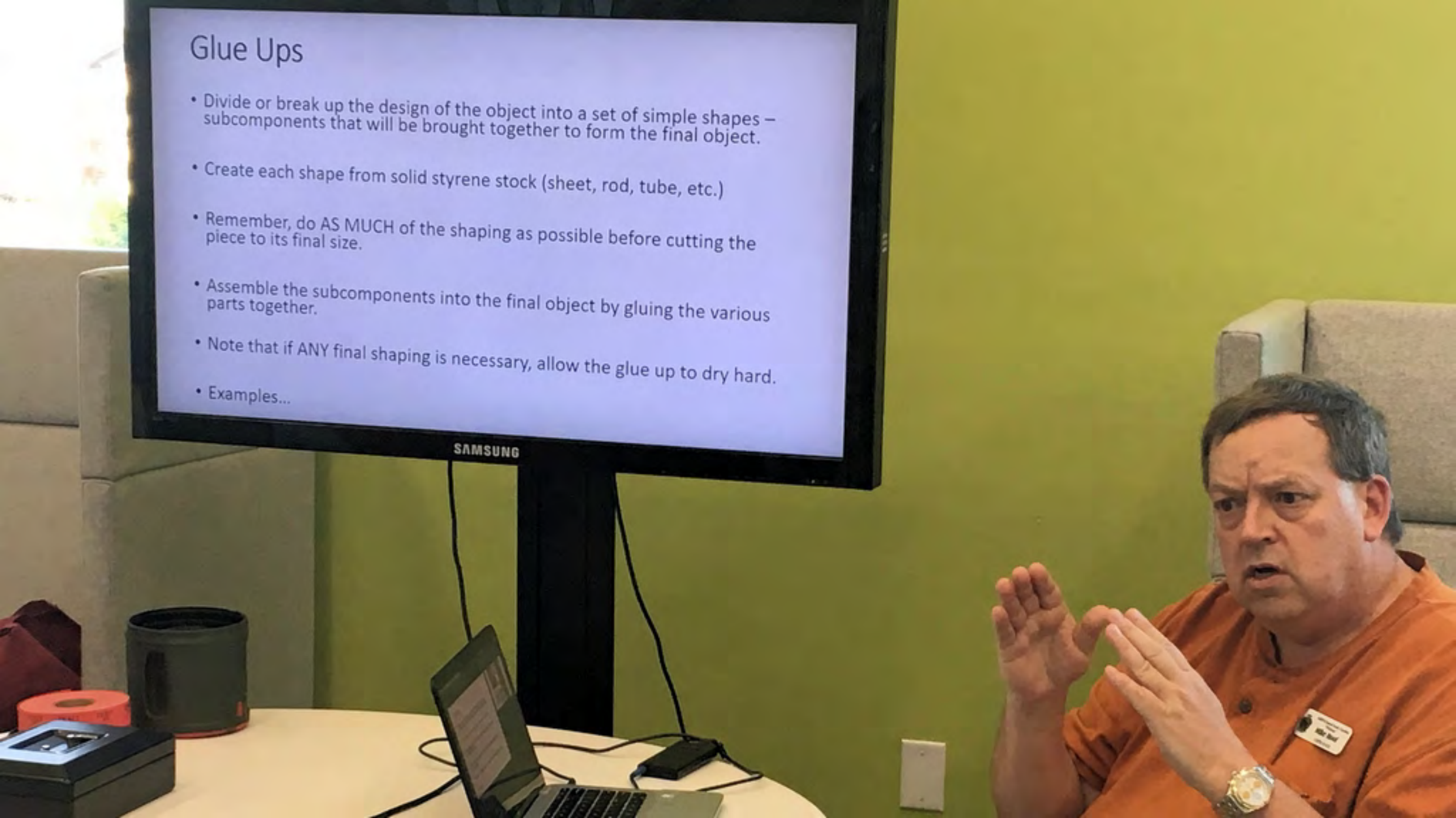
Glue Ups
• Divide or break up the design of the object into a set of simple shapes – subcomponents that will be brought together to form the final object.
• Create each shape from solid styrene stock (sheet, rod, tube, etc.)
• Remember, do AS MUCH of the shaping as possible before cutting the piece to its final size.
• Assemble the subcomponents into the final object by gluing the various parts together.
• Note that if ANY final shaping is necessary, allow the glue up to dry hard.
• Examples...
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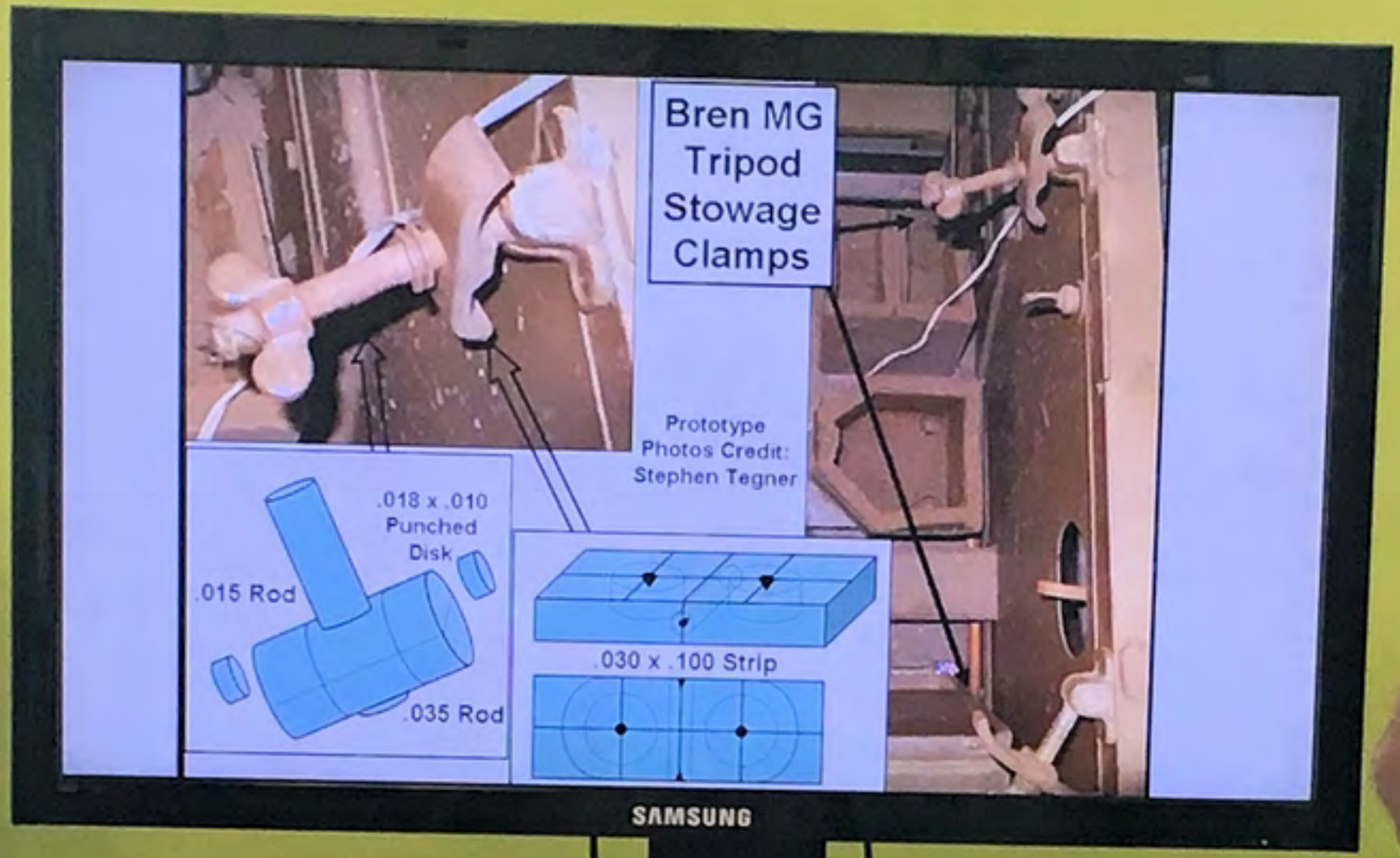
Bren MG
Tripod
Stowage
Clamps
Prototype
Photos Credit:
Stephen Tegner
.018 x .010
Punched
Disk
.015 Rod
.035 Rod
.030 x .100 Strip
SAMSUNG


Bren MG
Tripod
Stowage
Clamps
.018 x .010
Punched
Disk
.015 Rod
.035 Rod
.030 x .100 Strip
SAMSUNG


Drill Holes
Glue Up Rods
1
Cut Glued Up Sections Apart
2
Trim Excess and Shape By Sanding
Punched Disks
3
Finished Bracket Rods
4
Grant Line
DML
Tamiya
5
Clean Mold Seams
Drill Holes
6
Allow glued-up subassemblies to dry or set before finishing them.
7
Finished Bren Tripod Clamps
Keep very small parts on the sprue while cleaning up mold seams and drilling holes.
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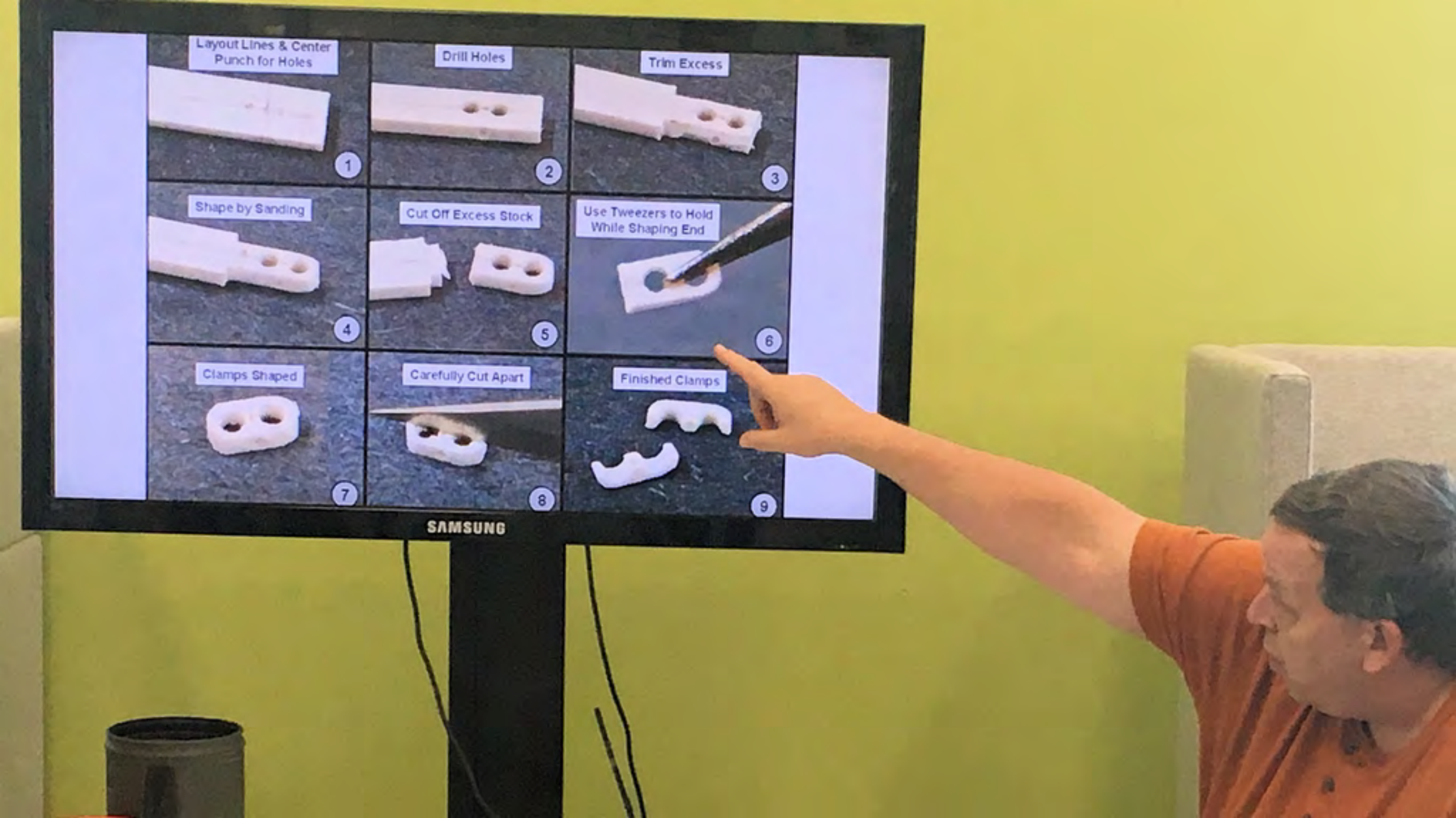
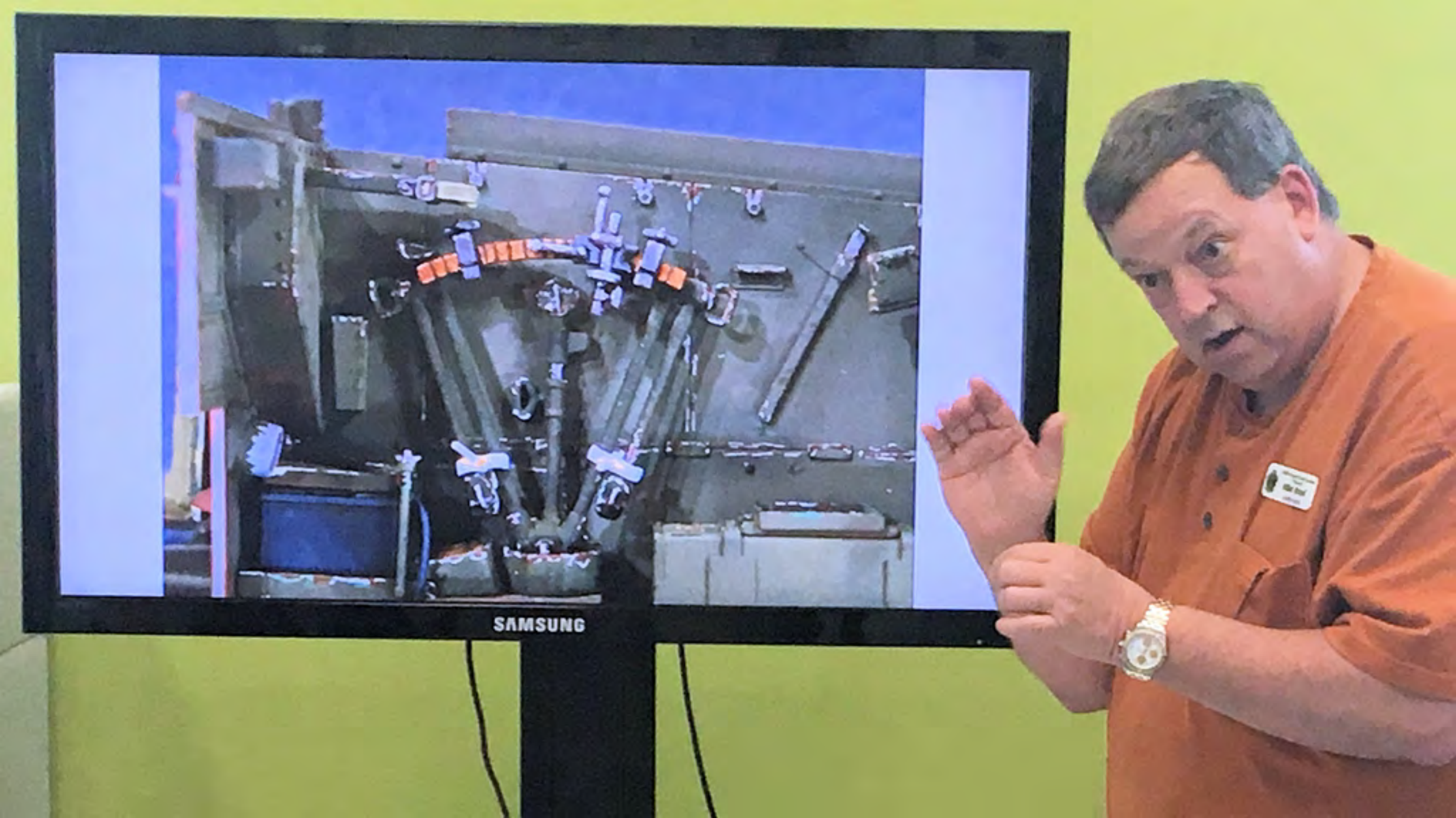

Layout Lines & Center Punch for Holes
1
Drill Holes
2
Trim Excess
3
Shape by Sanding
4
Cut Off Excess Stock
5
Use Tweezers to Hold While Shaping End
6
Clamps Shaped
7
Carefully Cut Apart
8
Finished Clamps
9
SAMSUNG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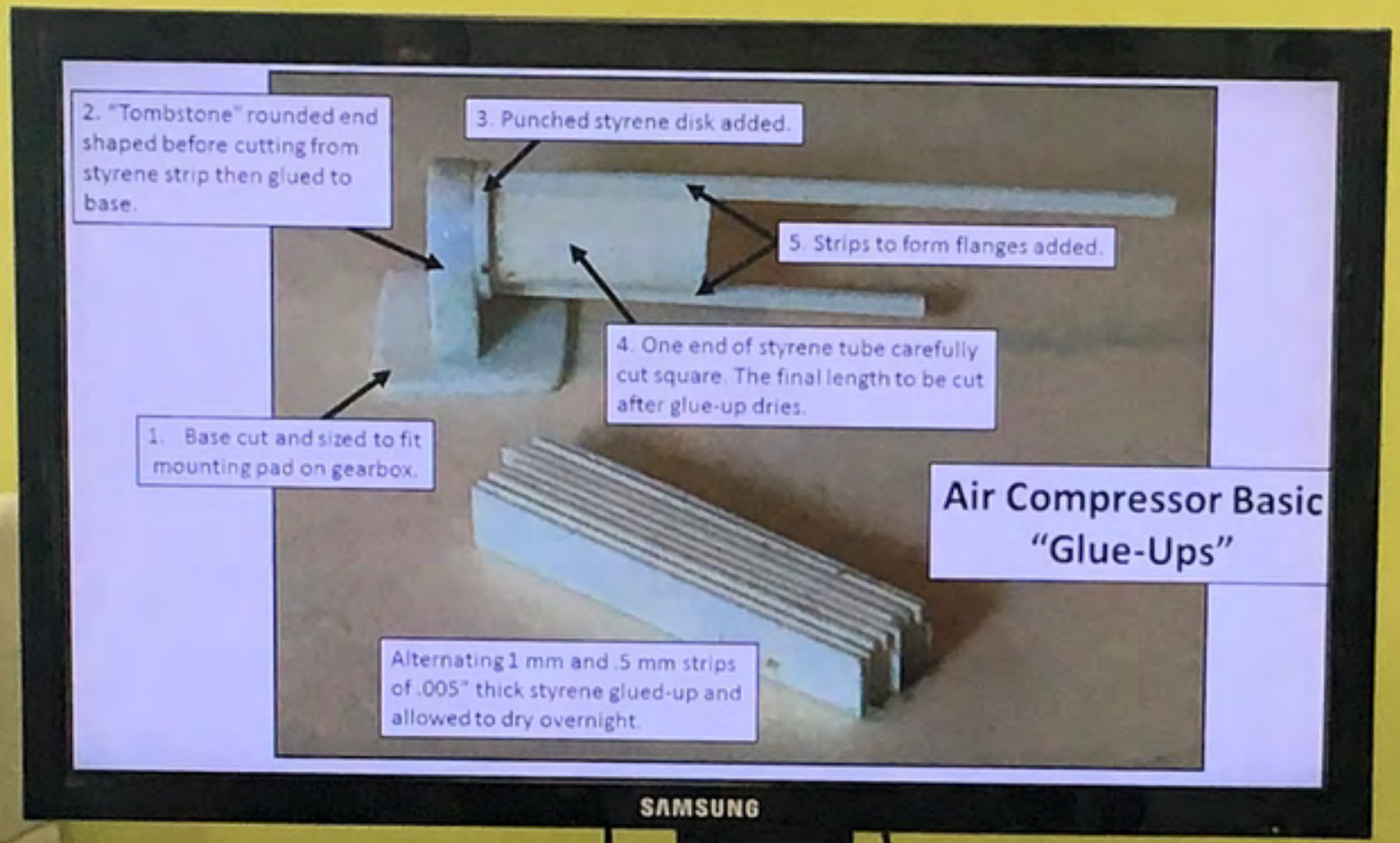
2. "Tombstone" rounded end shaped before cutting from styrene strip then glued to base.
3. Punched styrene disk added.
5. Strips to form flanges added.
4. One end of styrene tube carefully cut square. The final length to be cut after glue-up dries.
1. Base cut and sized to fit mounting pad on gearbox.
Air Compressor Basic "Glue-Ups"
Alternating 1 mm and .5 mm strips of .005" thick styrene glued-up and allowed to dry overnight.
SAMSUNG


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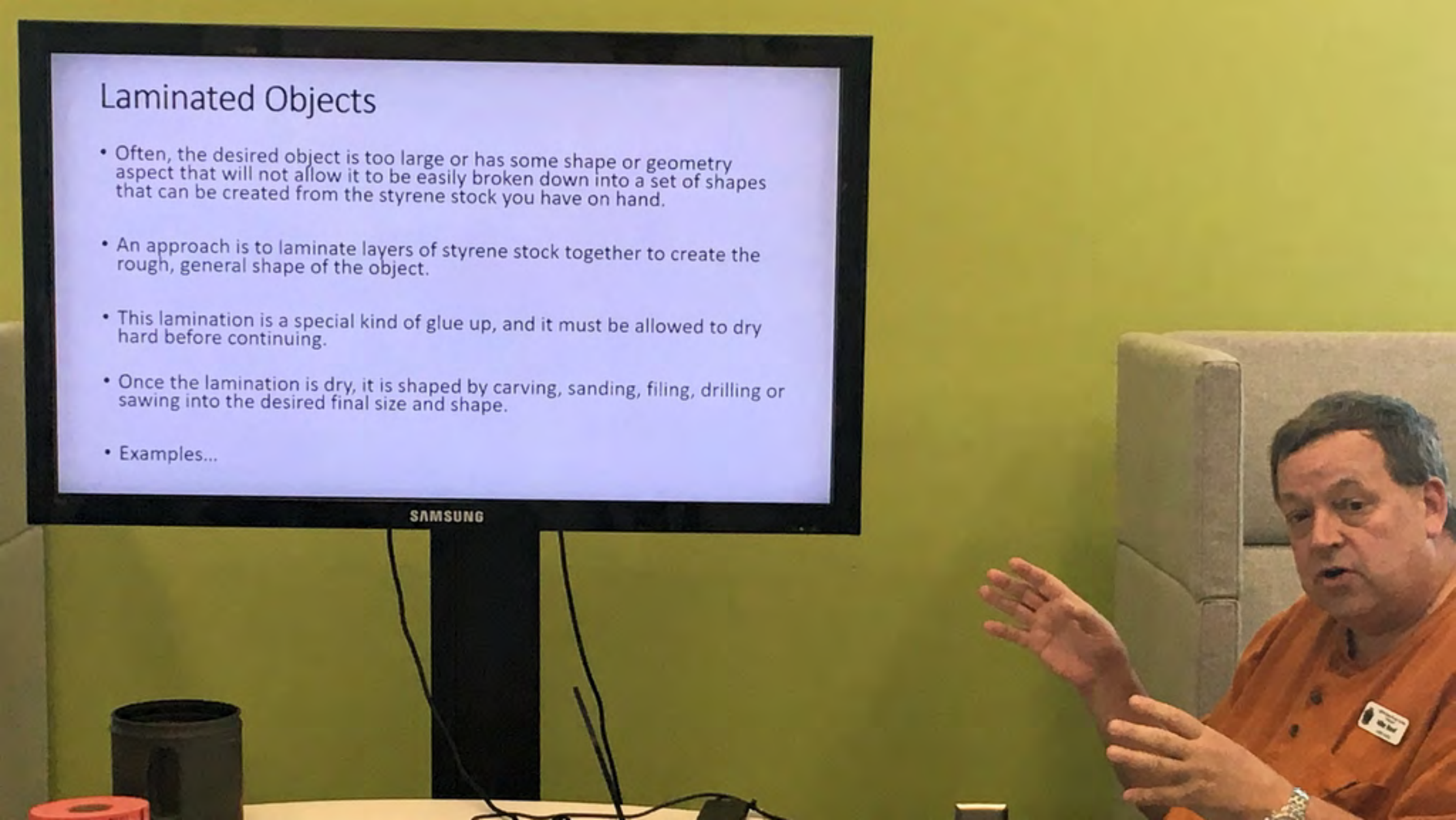
Laminated Objects
• Often, the desired object is too large or has some shape or geometry aspect that will not allow it to be easily broken down into a set of shapes that can be created from the styrene stock you have on hand.
• An approach is to laminate layers of styrene stock together to create the rough, general shape of the object.
• This lamination is a special kind of glue up, and it must be allowed to dry hard before continuing.
• Once the lamination is dry, it is shaped by carving, sanding, filing, drilling or sawing into the desired final size and shape.
• Examples...
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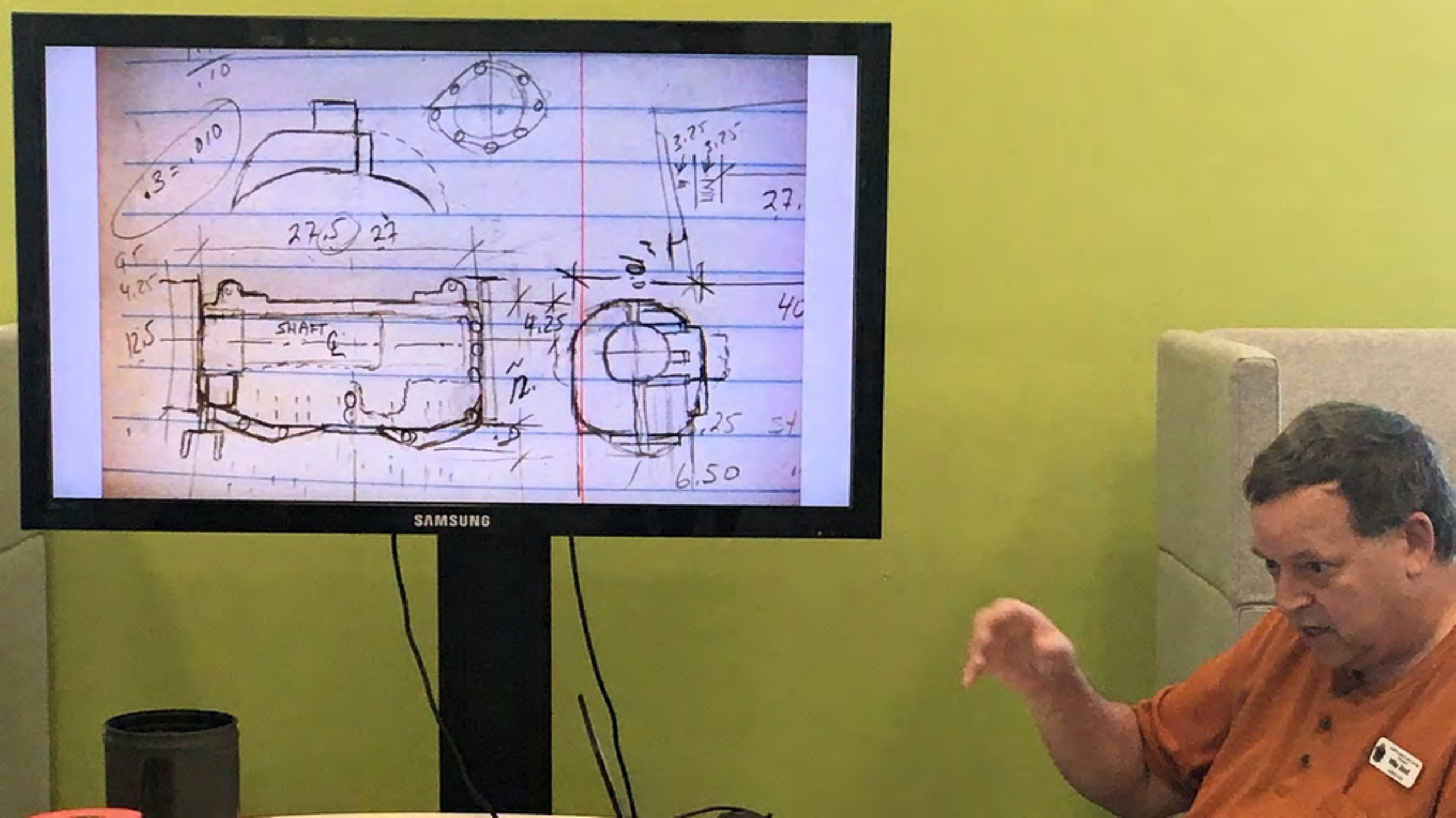
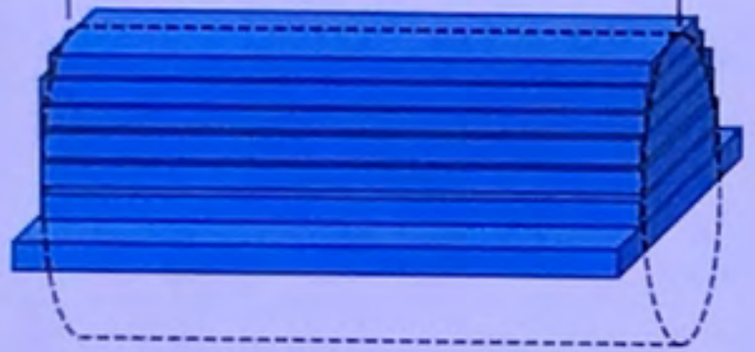
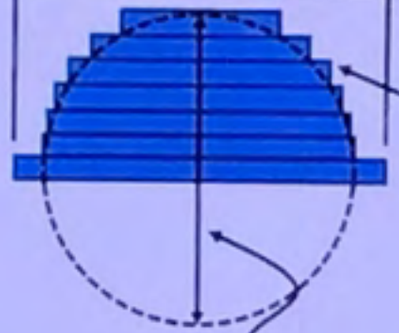

.10
.3 = .010
27.5
27
4.25
12.5
SHAFT
4.25
3.25
3.75
27.
40
.25
6.50
SAMSUNG

Cut out the layers, stack and glue them together.
Then carve, file, or sand to the desired profile.

Measure Length of Layers from
Top (Plan) View



Measure Width of Layers from
End (Elevation) View



Note that the Edges
Must Stand Proud of
The Profile to Allow
Enough Material to
Shape to Accurate
Dimension

This Height Divided by the
Thickness of the Sheet Plastic
Gives the Number of Layers Required

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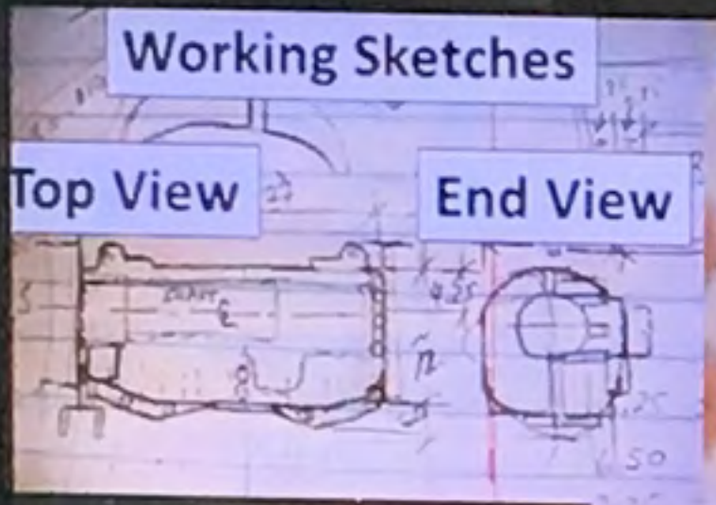
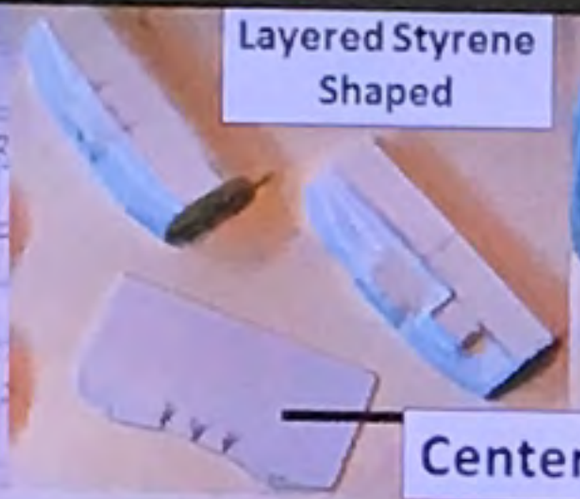
Working Sketches

Top View

End View

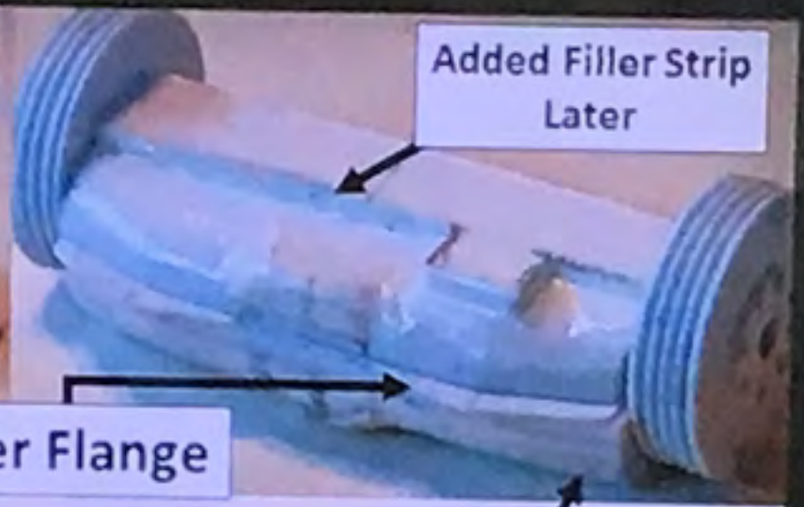


Layered Styrene Shaped



Center Flange

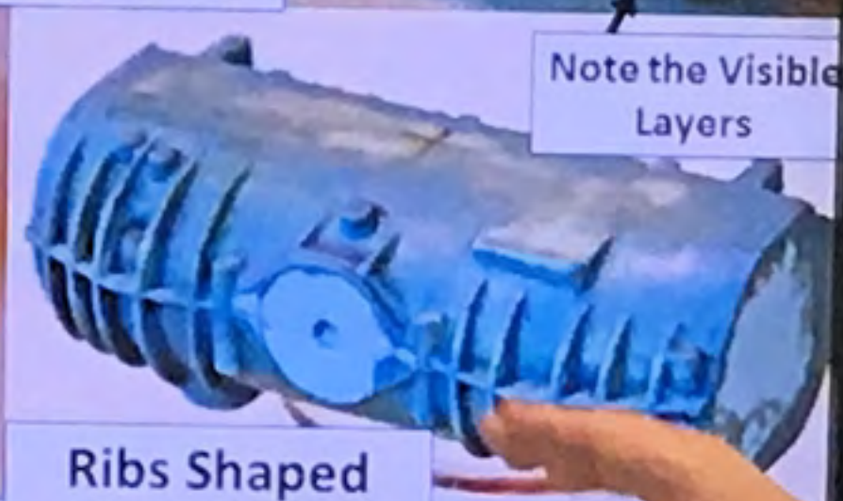
Added Filler Strip Later



Cutting Slots For Ribs

Ribs Glued in And Roughly Shaped

Note the Visible Layers



Ribs Shaped And Blended to Gearbox

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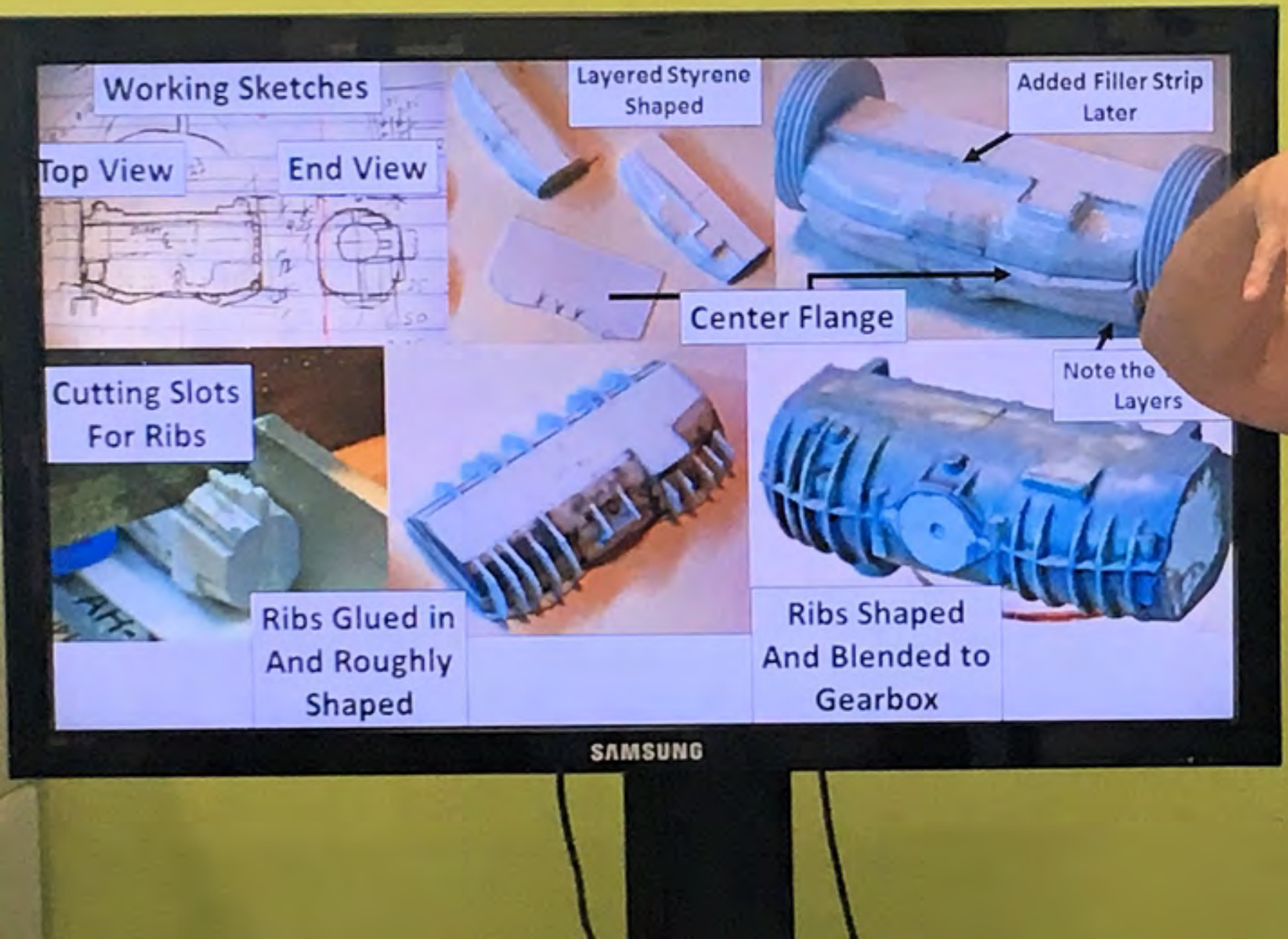
Working Sketches
Top View
End View
Layered Styrene Shaped
Added Filler Strip Later
Center Flange
Note the Layers
Cutting Slots For Ribs
Ribs Glued in And Roughly Shaped
Ribs Shaped And Blended to Gearbox
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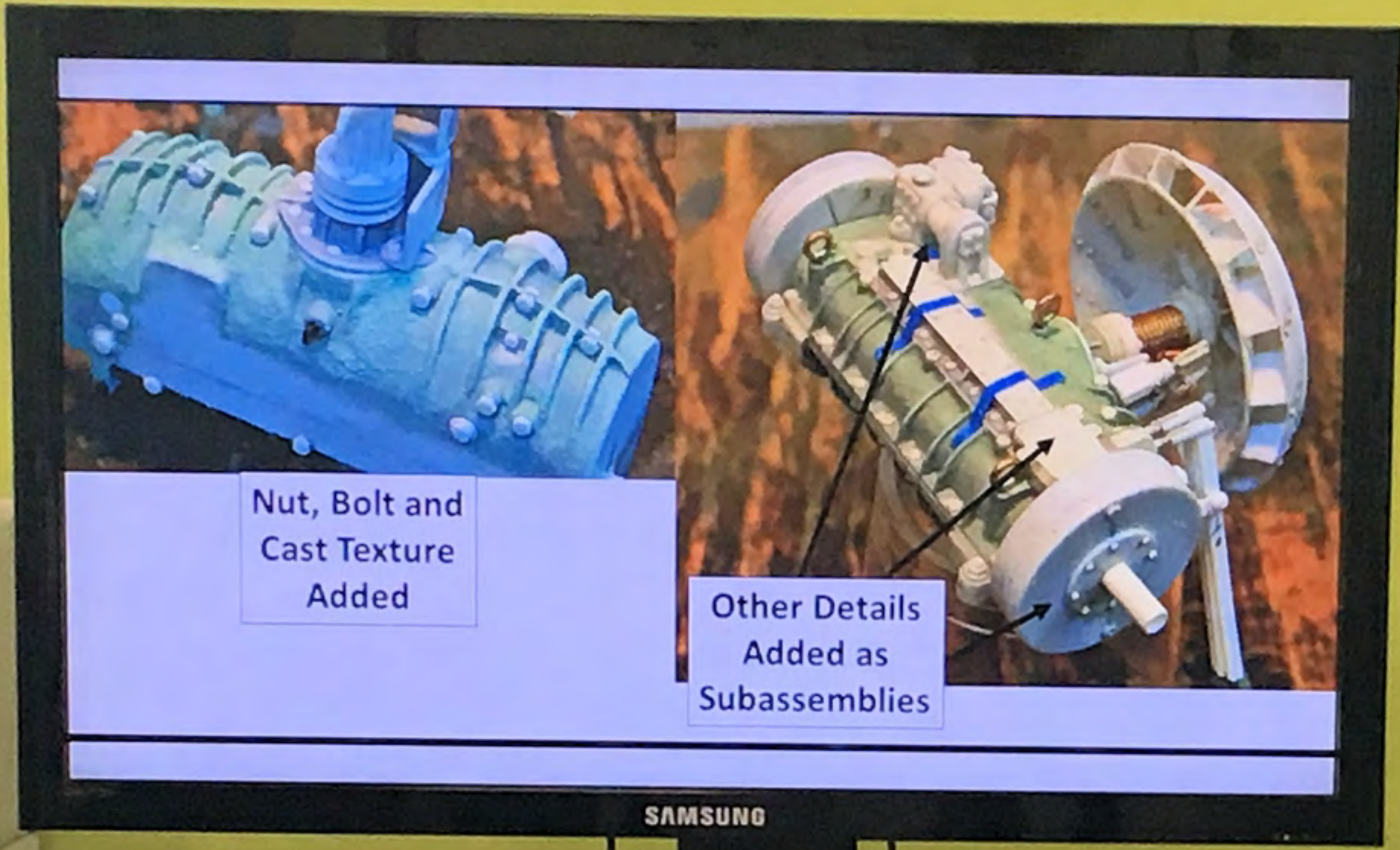
Nut, Bolt and Cast Texture Added
Other Details Added as Subassemblies
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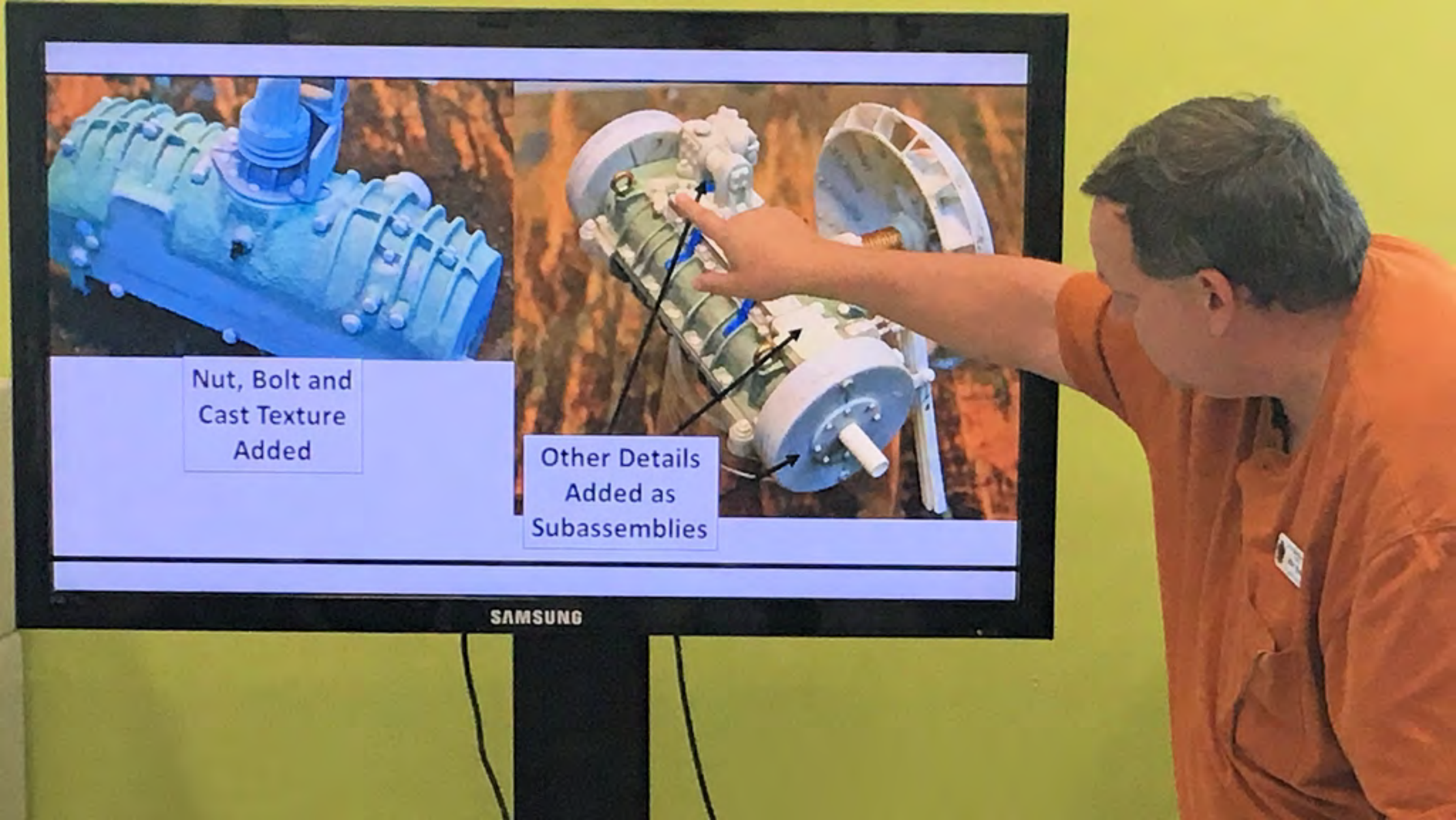
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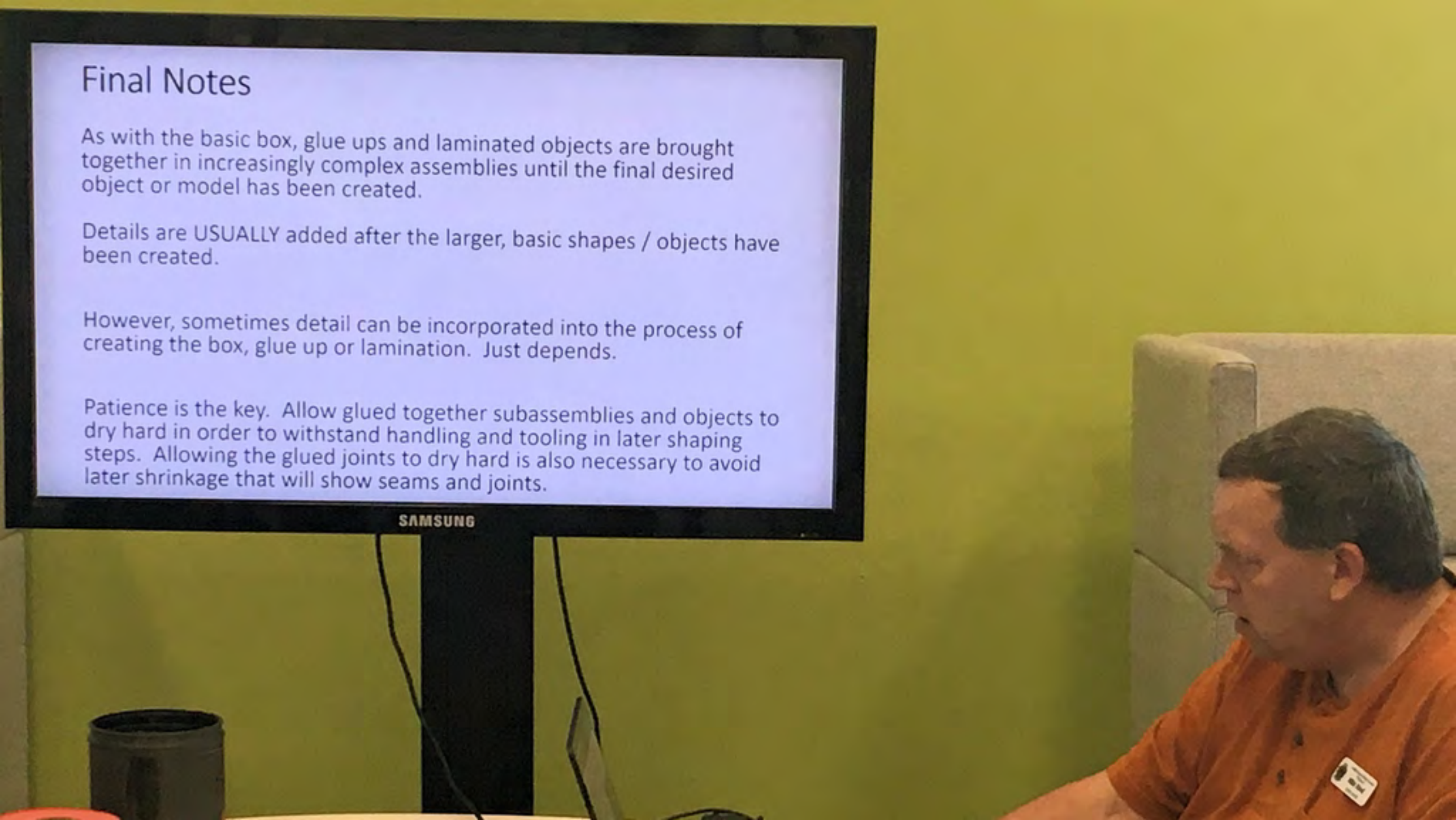
Final Notes
As with the basic box, glue ups and laminated objects are brought together in increasingly complex assemblies until the final desired object or model has been created.
Details are USUALLY added after the larger, basic shapes / objects have been created.
However, sometimes detail can be incorporated into the process of creating the box, glue up or lamination. Just depends.
Patience is the key. Allow glued together subassemblies and objects to dry hard in order to withstand handling and tooling in later shaping steps. Allowing the glued joints to dry hard is also necessary to avoid later shrinkage that will show seams and joints.
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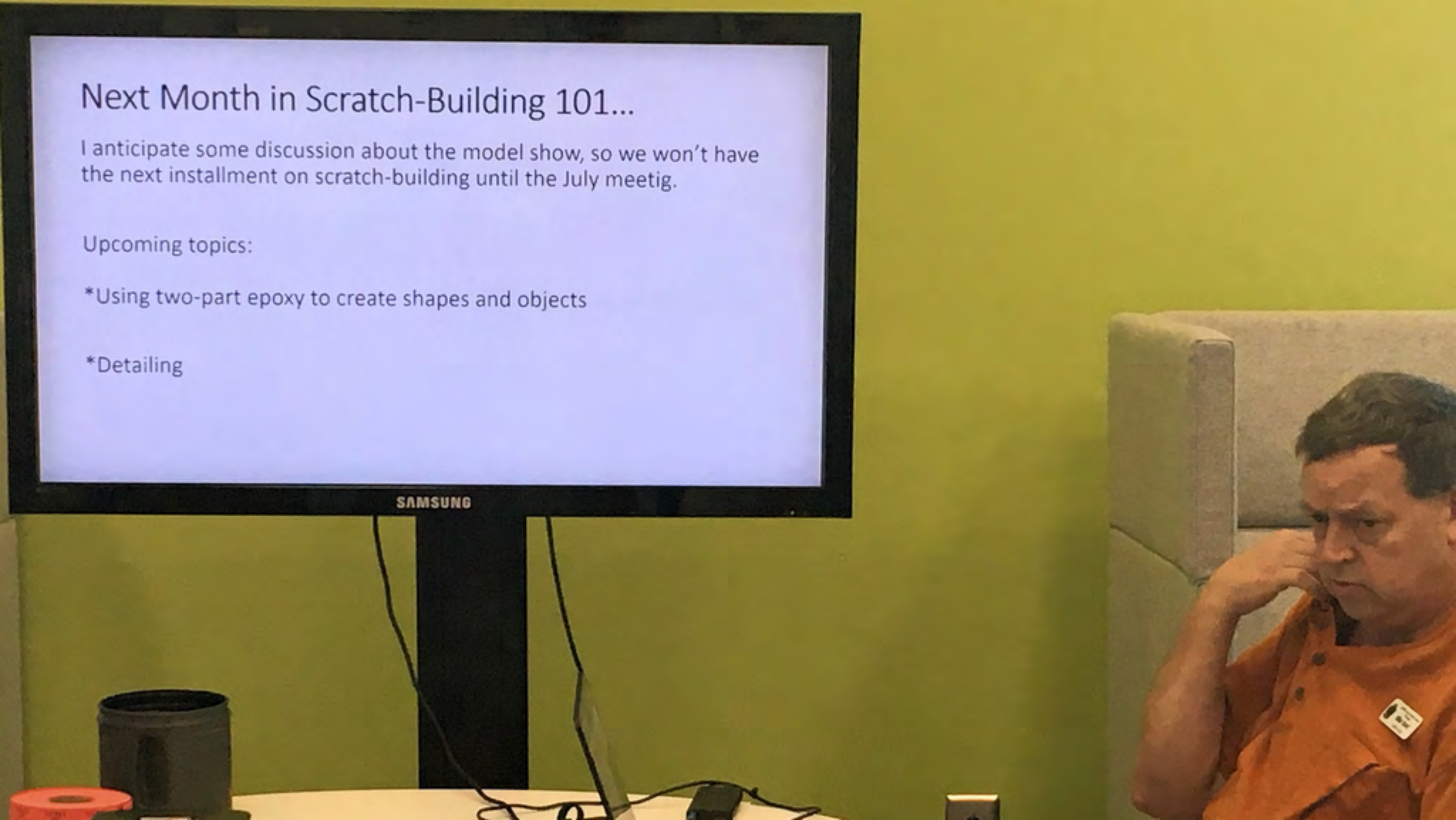
Next Month in Scratch-Building 101...
I anticipate some discussion about the model show, so we won't have the next installment on scratch-building until the July meetig.
Upcoming topics:
*Using two-part epoxy to create shapes and objects
*Detailing
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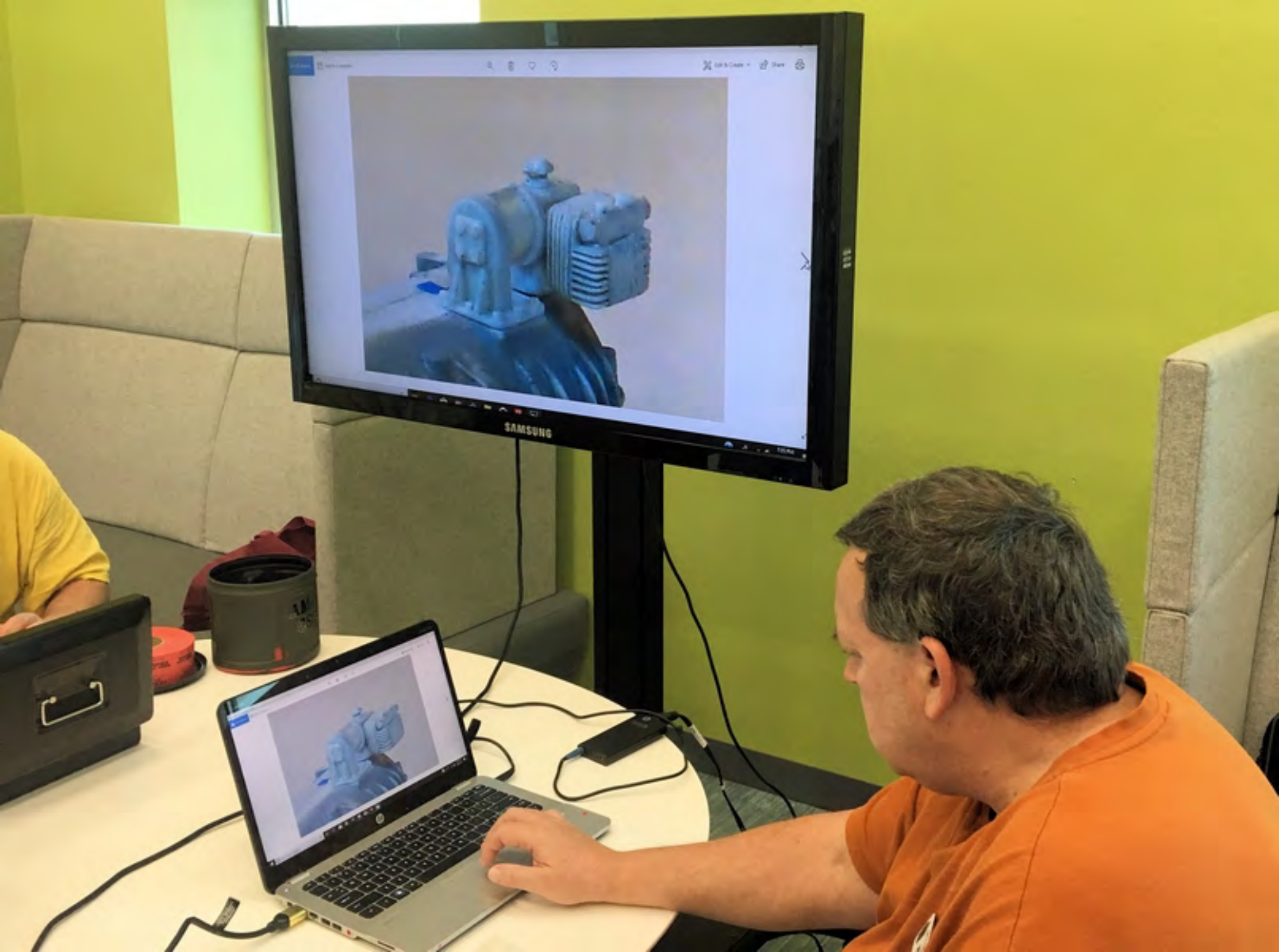
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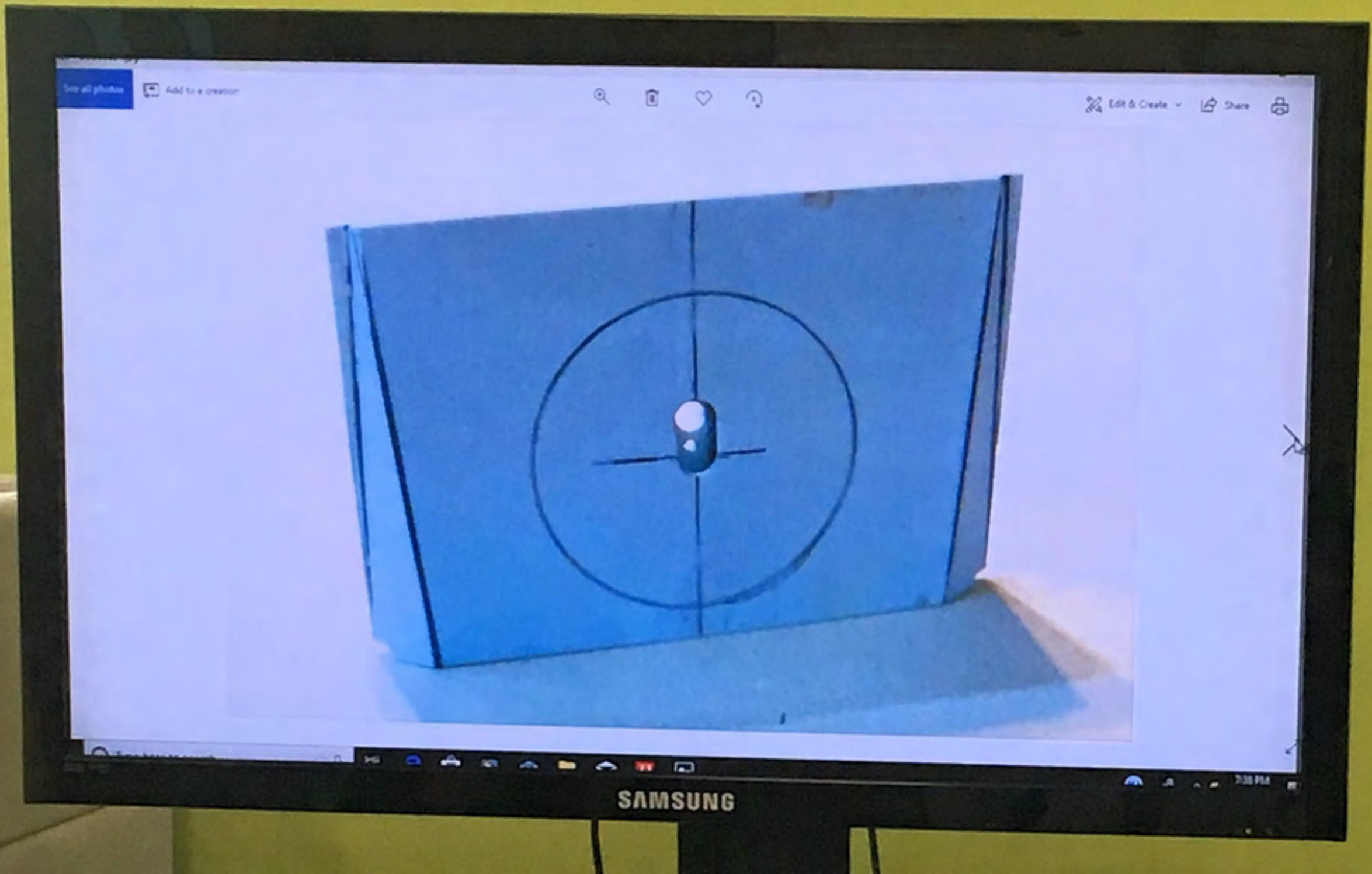
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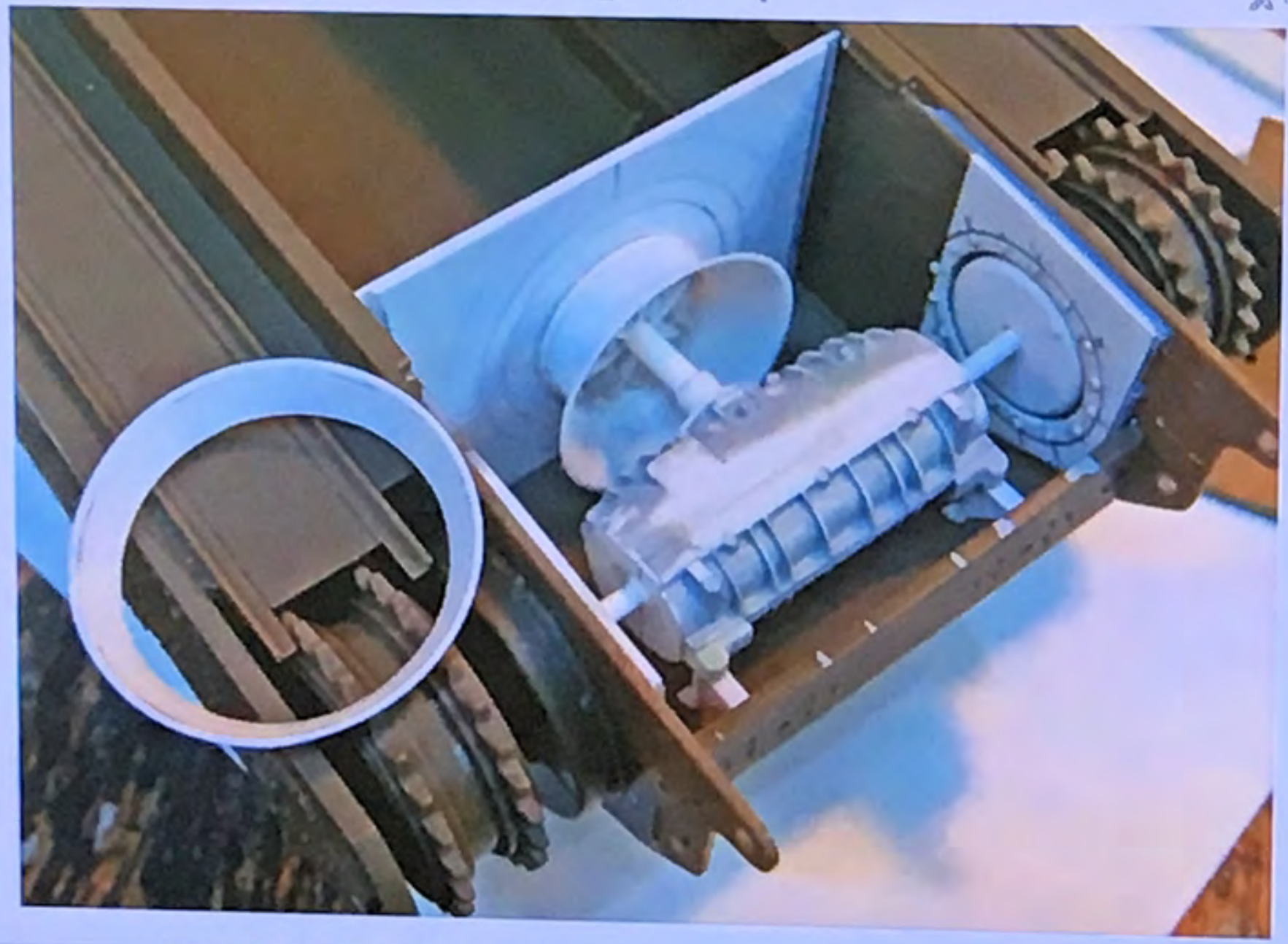


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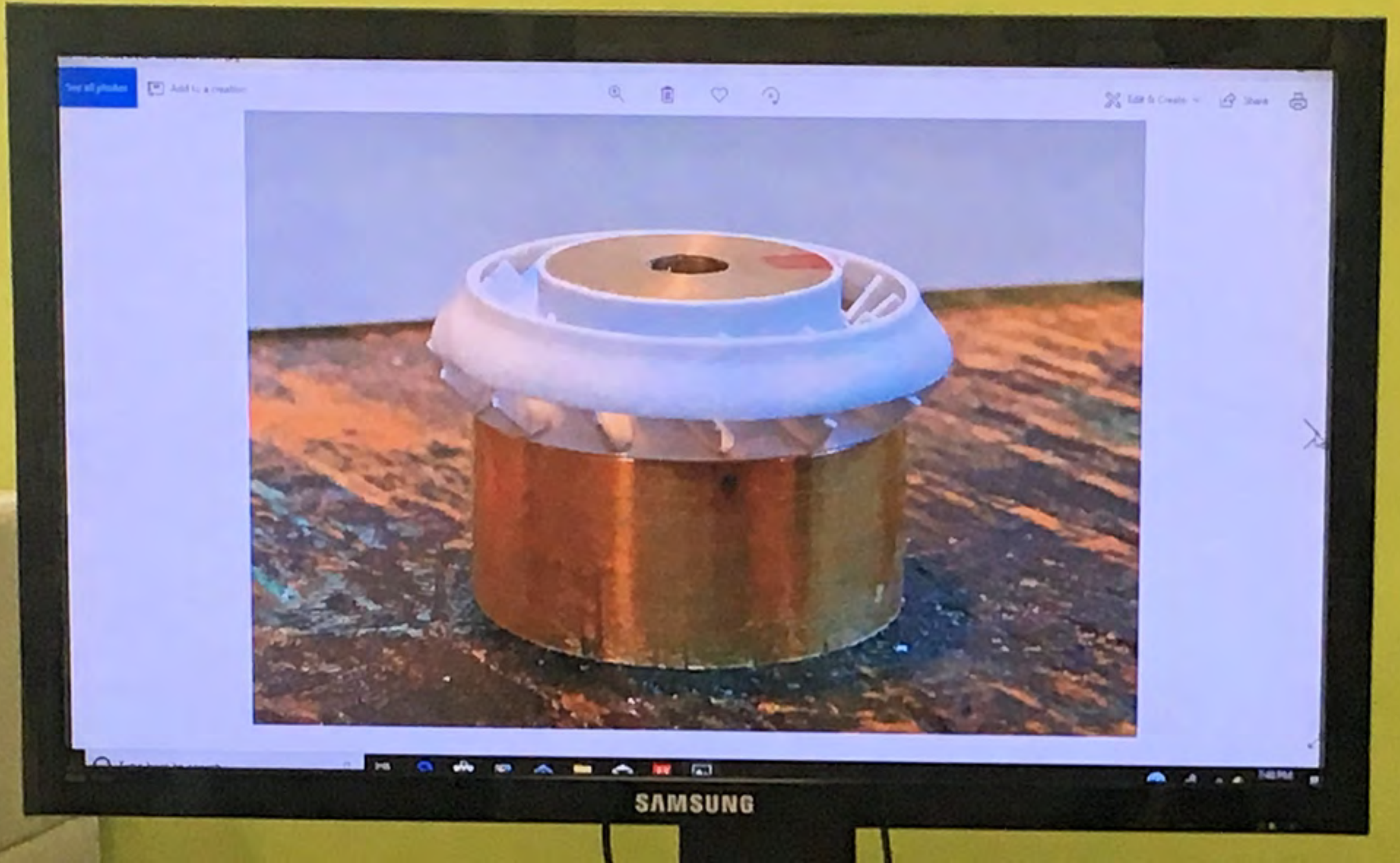
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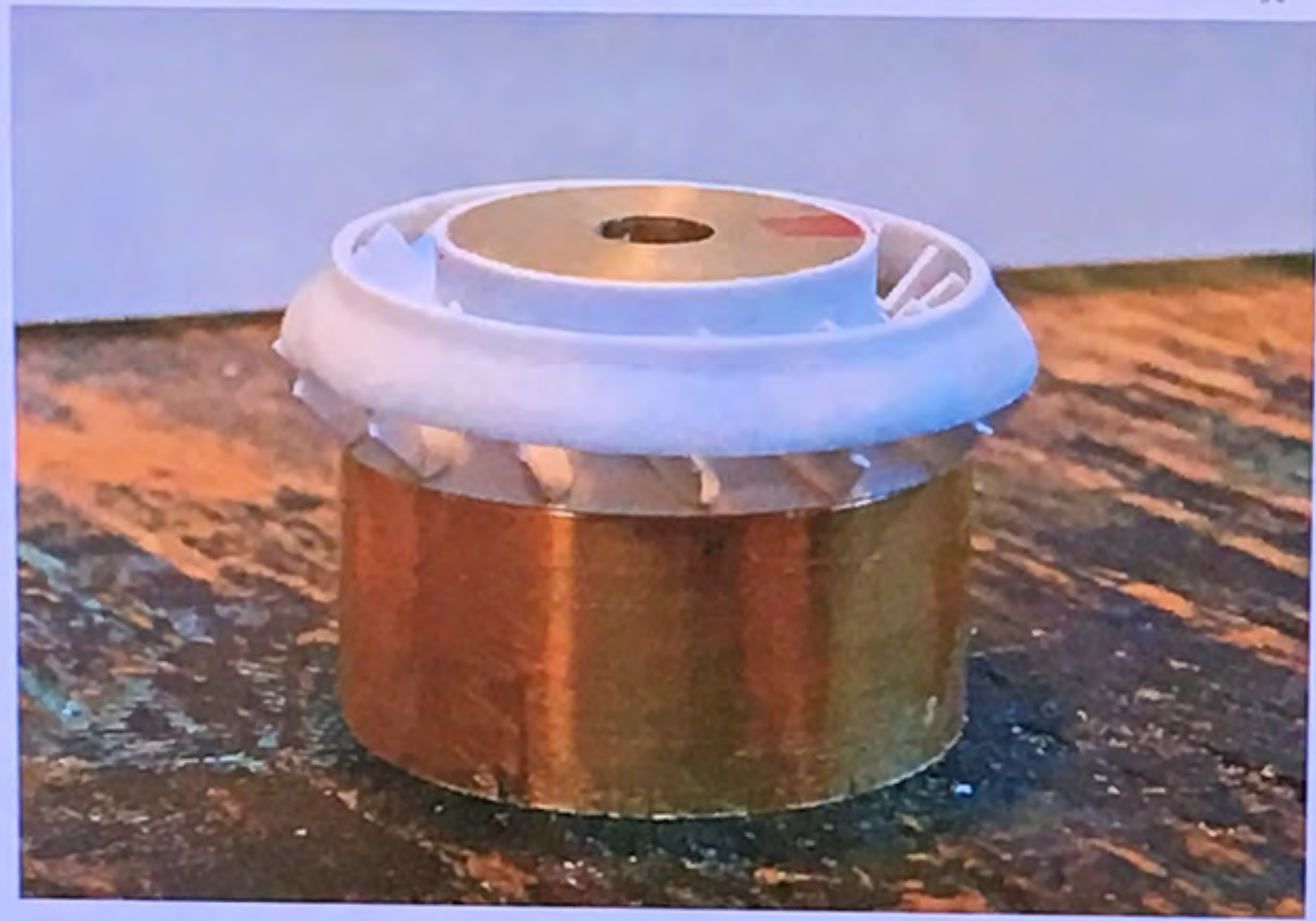


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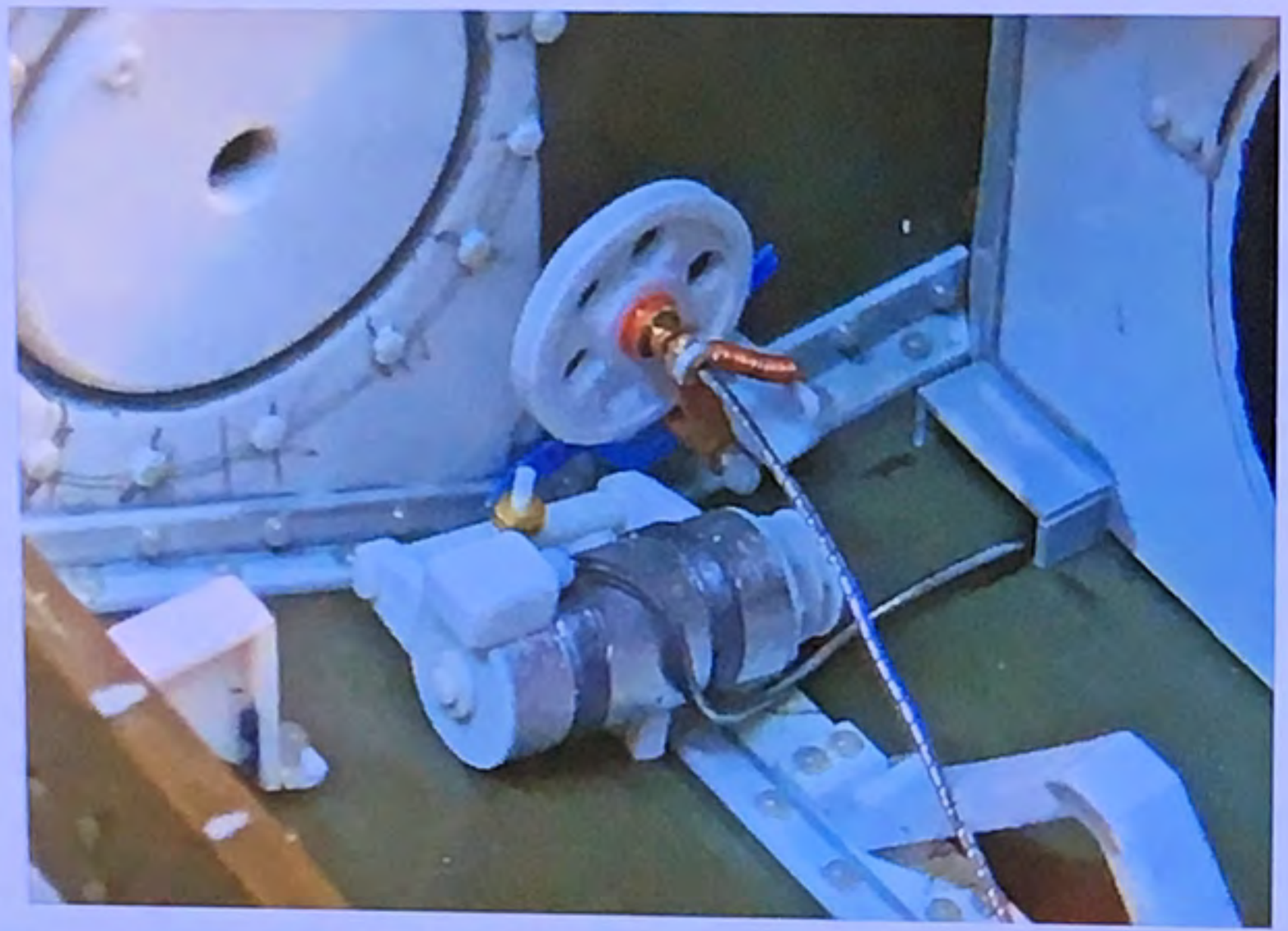

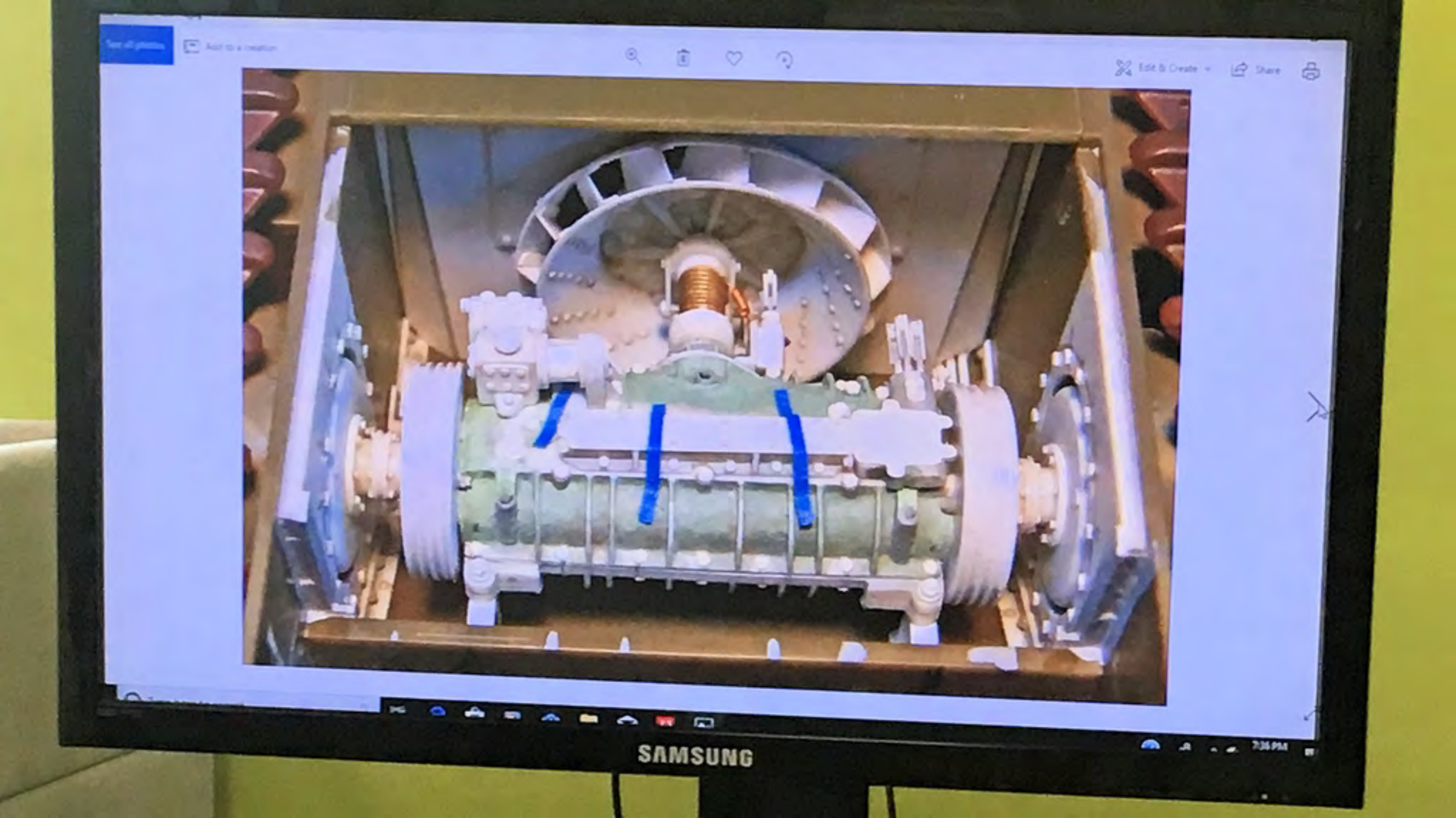
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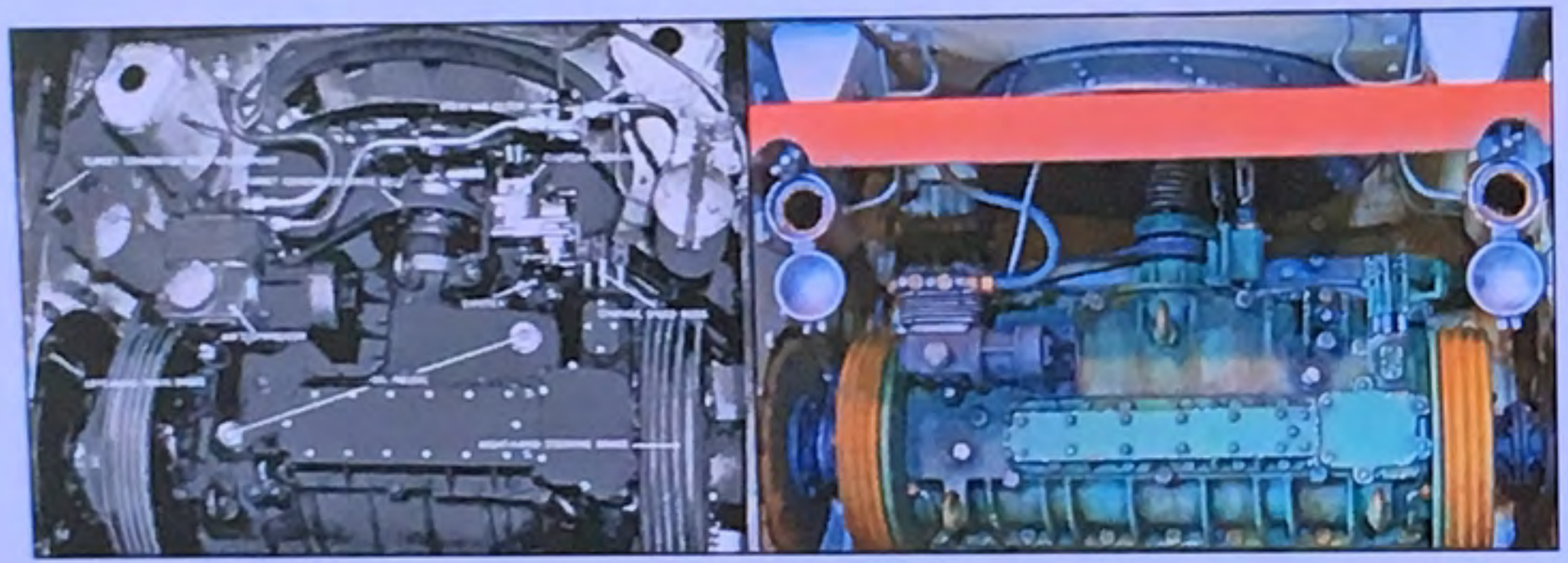
7:36 PM

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09MAY19 Meeting:

1. JGSDF Type 61 (Tamiya + Mr. Surfacer 1000 Cast Texture, scratch Welds, Grab Handles, etc.), 1/35 – Dave Varettoni
2. Jeep Willys MB, ¼ ton 4X4 Truck (Tamiya), 1/35 – Trevor Edwards
3. Russian Tank Destroyer SU-85, Captured German "219" (Tamiya (old) + Dragon Track Links, scratch-built metal wire Tie-Downs, changed to Dragon Fuel Tanks and Mounting Brackets, scrap PE Grouser Tie Down Straps, scratch-built Antenna & Base), 1/35 – Dave Cicimurri
4. Free French Panther Ausf. A, w/ Zimmerit & Full Interior (Takom + Fruil metal tracks), 1/35 – Tom Wingate
5. Tracks for Armored Utility Vehicle [for John Sherrer's scratch-build project] (Engineered from pictures & a few dimensions from Hunnicutt's "Bradley" book, 3D Designed, printed by Mike Roof), 1/35 – Jeff Nelson
6. Various Vietnam War Era Fire Support Base Bunkers, Ammo Bunkers & Mortar Pits (resin casting of 3D printed parts, scratch built), 1/72 – Mike Roof
7. British Airborne Infantry (Bronco "*WWII British Paratroopers in Action Set A*" & Tamiya "*British Paratroopers w/ Small Motorcycle*"), 1/35 – Michael Child

RAFFLE: Riich Model's 1/35 scale "*SKODA RSO-Radschlepper Ost*", kit #RV35005, won by Mike Roof.

RIICH MODELS

ŠKODA RSO-Radschlepper Ost

CAUTION

* Detailed scale model for adult modelers only.
* For modeler ages 14 and over.
* This box contains parts to make one model kit.
* Contains functional sharp edges and points.
* Actual model may vary from image on box.

RV35005

1/35