
SEAN FRIEDMAN

Engineering & CAD Portfolio

INDUSTRIAL PHYSICS | CAD | PROTOTYPING | TESTING

Industrial Physics student translating real requirements into functional CAD, 3D-printed prototypes, and tested electronic systems.

East Stroudsburg, PA

seanfriedman98@gmail.com

[linkedin.com/in/seanffriedman](https://www.linkedin.com/in/seanffriedman)

nextrounddesign.com



Profile & Capabilities

Hands-on design and testing. I develop functional parts from measurements and client-defined requirements, model them in Fusion 360, prepare prints, evaluate prototypes, and revise designs for fit and usability.

Through Next Round Design, I operate Bambu Lab P1S, P1P, and A1 printers and complete paid design and printing work. My published models have received 1,000+ downloads, 350+ likes, and multiple five-star ratings.

1,000+

MODEL DOWNLOADS

350+

MODEL LIKES

3 printers

P1S / P1P / A1

CORE CAPABILITIES

DESIGN

Autodesk Fusion 360
Functional part design
Dimensional modeling

FABRICATION

Rapid prototyping
3D printing
Additive manufacturing

TEST

Oscilloscopes
Digital multimeters
DC power supplies

SYSTEMS

Function generators
Breadboards
Technical troubleshooting

TARGET ROLES

Test engineering | CAD | Prototyping | Validation

Blueprint-to-Scale Residential Model

Fusion 360 | Bambu Lab P1S | PLA



CHALLENGE

Create a physical architectural model as a private gift, using residential blueprints as the dimensional reference.

APPROACH

I translated the floor plans and elevations into a multipart CAD model. The main challenge was keeping walls, roof sections, and small features printable without losing the intended scale.

RESULT

The four-piece PLA model required more than 48 hours of printing. A future version would add finer exterior and architectural detail.

15 x 10 x 8 in

FINISHED SIZE

4 pieces

ASSEMBLY

48+ hours

PRINT TIME

2 floors

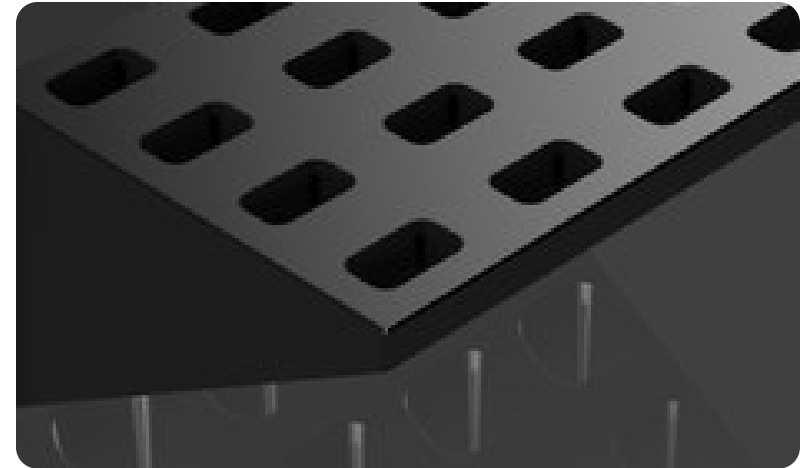
MODELED FROM PLANS

Scale-aware

WALL THICKNESS

Hexagon Storage Wall File Organizer

Fusion 360 | Bambu Lab P1S | PETG



CHALLENGE

Store metal files where they remain visible and easy to reach without consuming bench or drawer space.

APPROACH

I designed a 16-slot PETG organizer with a hexagonal connector for the existing wall. Rounded openings separate the handles; the open bottom accepts different file lengths.

RESULT

The four-hour print has remained installed and continues to support the tools during regular use.

GOOD AM iPhone Stand

Fusion 360 | Bambu Lab P1S | PLA



DESIGN INTENT

Create a playful desktop phone stand that visually resembles an alarm clock while supporting an iPhone in the landscape orientation used for Apple StandBy mode while charging.

ITERATION

I revised the geometry for reliable 3D printing and adjusted the support angle until the phone rested securely in the intended viewing position.

~7 in wide

DESK FOOTPRINT

12 hours

PRINT TIME

Passive stand

NO ELECTRONICS INSIDE

Landscape

STANDBY ORIENTATION

Print-ready

OPTIMIZED GEOMETRY

CONTACT

seanfriedman98@gmail.com

[linkedin.com/in/seanfriedman](https://www.linkedin.com/in/seanfriedman)

nextrounddesign.com