

Executive Model Bookcase

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PROJECT MISSION

To work collaboratively and produce a bookcase that meets all design specifications of the capstone project.

PROJECT GOALS

To design a bookcase that meets the storage demands of a professional office environment. The team strived to create an aesthetically pleasing design that can stand alone or work as an office space divider. Our modular design is environmentally sustainable, recyclable and economically feasible.

PROJECT EVALUATION

Our team worked on several designs and determined that the executive model would provide excellent storage capacity. We discovered that our original design had to be modified to ensure stability.

PROJECT PLAN

We broke the project down into two sections and took turns concentrating on the CAD design and the written report. Each member worked

POSSIBLE SOLUTIONS

- Our team considered several designs and the need for stability dominated our decisions. Material strength, function and beauty were then considered in that order.

- First design considered was to include as much storage as possible so we used the maximum dimensions. Outcome; too unstable and material failure

- Second design considered was to scale down first model and create a more beautiful product.

- Our design specification challenges prompted our decision to develop the executive model because it served all the needs of the project design.

FINAL SOLUTION

- Our team designed a handsome, sturdy bookcase with dimensions of 50" X 74" X 24" constructed with reclaimed maple shelves and assembled with teakwood dowels and fitted joints.
- This bookshelf comes fully assembled for customer convenience.



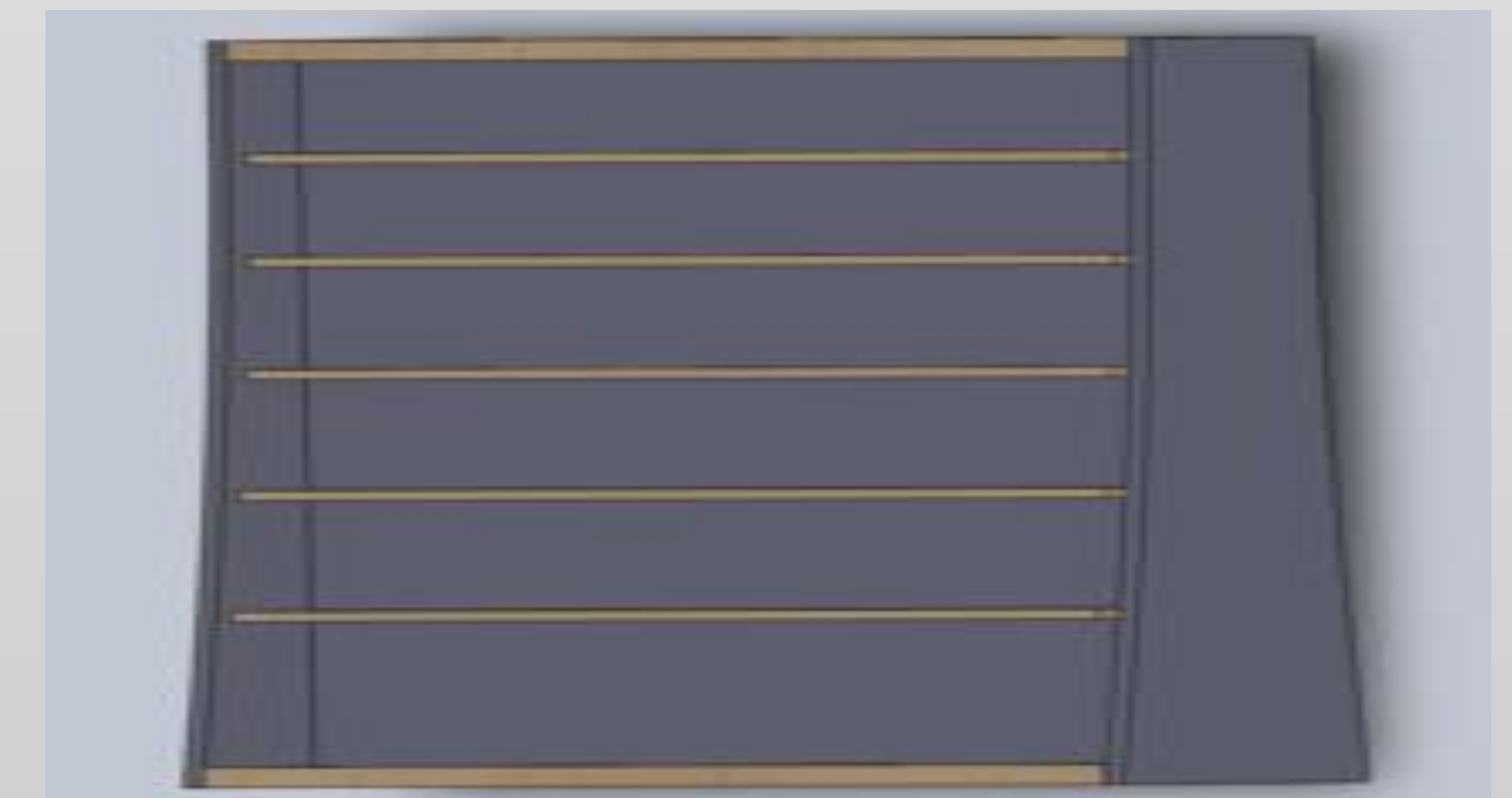
LESSONS LEARNED

- Our team discovered that a design may look workable on paper.
- CAD drawings require a knowledge of cross sections and assembly planning
- Final product is different from original plan

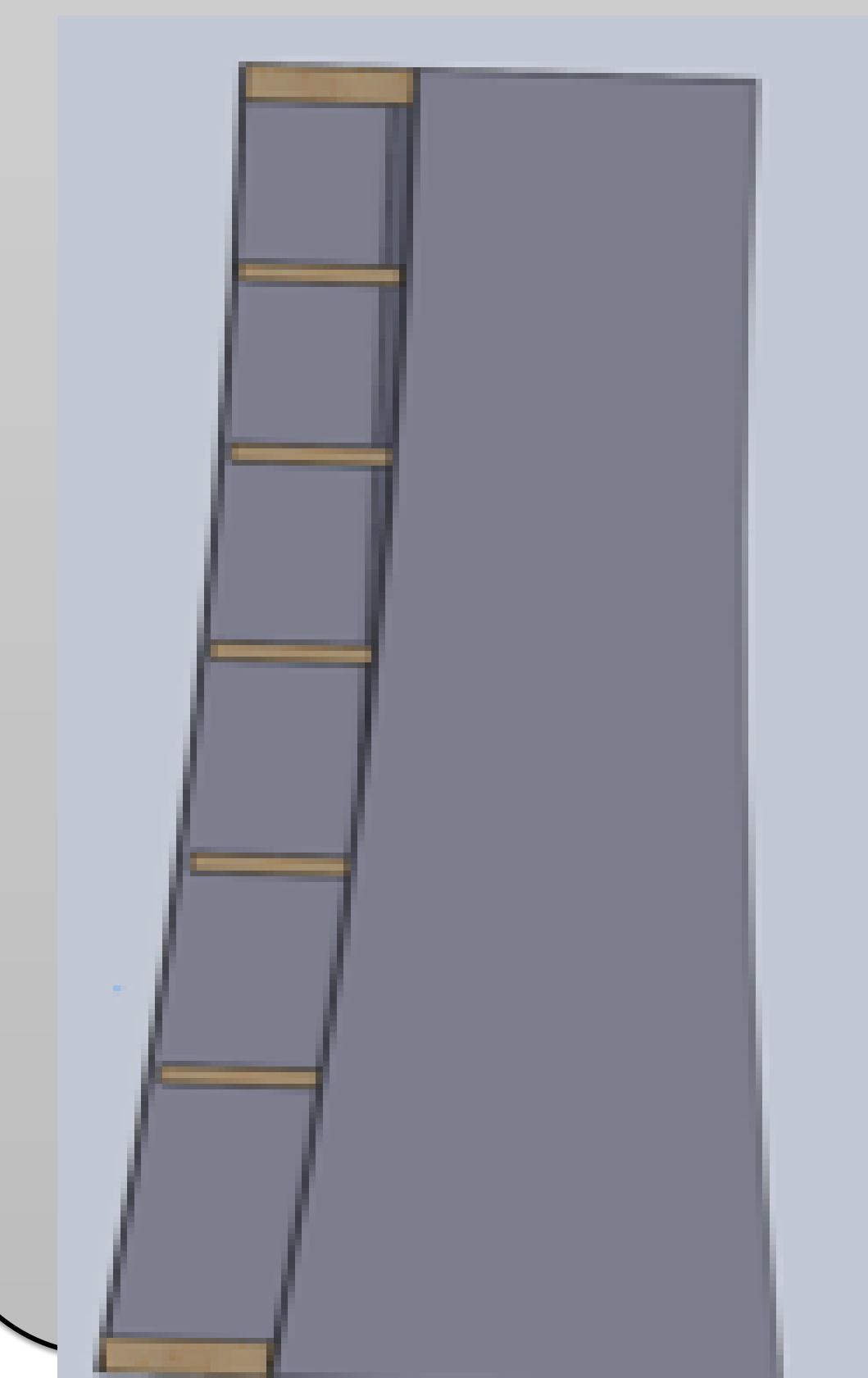
TAKE AWAYS

MATERIALS TESTED DO NOT MATCH MATERIALS USED

FRONT VIEW



LEFT SIDE VIEW



RIGHT SIDE VIEW

