

Ecological Tiny Home Community: A small solution for a huge social-economic issue



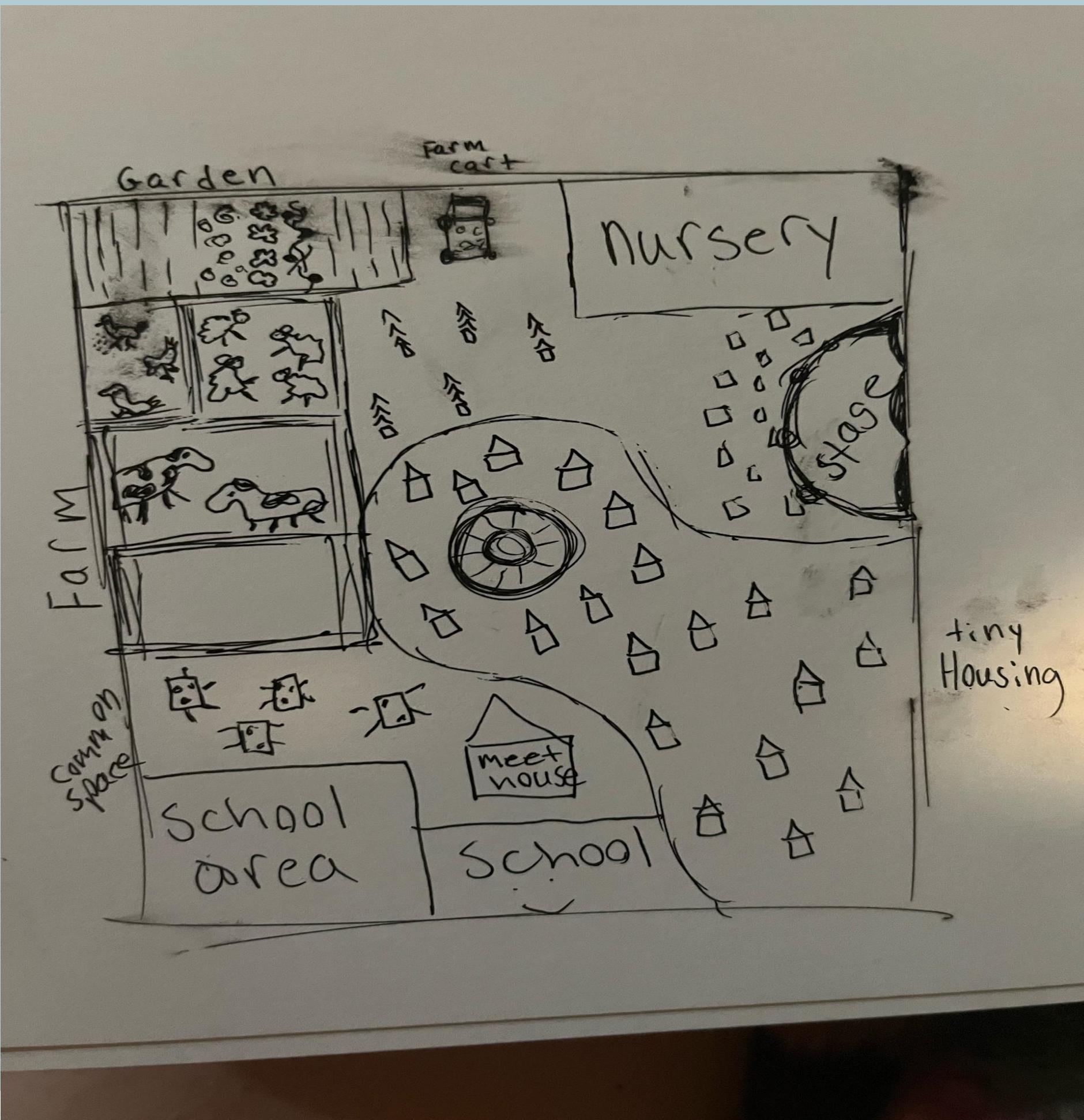
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Innovate: IA Project Showcase

Problem Statement:

Cities like San Francisco and Seattle are full of homeless people on the streets and families that can't afford to live in a two-bedroom apartment anymore, along with this there's trash littering the streets and a loss of neighborly etiquette in society. Which leads to my solution, a family friendly tiny home community made of recyclable materials.

Abstract



Background

I lived in California for three years when I was 11-14 in a town around 30 minutes outside San Francisco. Whenever we would visit the city, I would notice the number of homeless men women and even children who lived on the streets and in tents. (especially during covid) and how unsafe it seemed to have in a city so polluted and large. I also learned how overpopulated cities like San Fran can get with families who can barely afford a one-bedroom apartment due to inflation. Remembering all of this and combined with my love for tiny homes and the culture surrounding them I decided to produce an idea for a recycled tiny home community with strong family and neighbor values for people who live in tents of families that can't afford to live in unethical overpopulated cities.

Materials

My materials for this project include, clay, grass matting, recycled materials like cardboard, plastic bottles, and match boxes, paper, fake people, and online resources to write and create my poster.

Method and Process Steps

To make my model I am combining used and new materials to create it while following a charted plan of action to complete each section. For starters I sketched the plan a few times to get an idea of how I wanted it, then I started modeling pieces and getting them ready for the board, I also collected more materials during this time that were from recycling bins and around downtown Alpharetta. I worked on covering the base of my box top with clay and floor matting for a ground look and I built pieces like a puzzle out of various materials I found during my previous search. Putting the pieces together little by little felt so accomplishing and it was overall a difficult but fun process to do.

Research Question: can I create a format for a family friendly tiny home community made of recycled materials that bases values off a 1960s style neighborhood.

Hypothesis or Criteria for Success

My criteria for success, is does it match the original description of my plan, was it a finished nice result, is it demonstrative of what can be completed in the future, and did it make the public understand my vision.

Results

My results are the model that you see on the table below, Made from (like the design) recycled materials and garbage mixed with clay and new materials to make a multi purposed visual of the idea I had last august when I entered research class for the first time. .thank you so much for listening and feel free to ask questions about the model or idea!

Conclusion

My results for my project are the layout and feasibility of this possible future endeavor. It is very possible to do but would need willing people and helping hands to build. Layout was tough to start with but very nice once it's finished and polished. My model is a draft of what an environment like this could look like and could be modeled differently depending on the area and population.

Next Steps

Next steps for me on this project would be to find interest outside of my own in this idea, and people who would be committed to turning it into an actually place. Next would be finding applicants to house and collecting recycled materials to build the place along with investors for both build time and money. It would be a huge project that I may attempt when I'm older and past college but for now spreading the awareness on the issue and the idea of the community style is what I'll do next. .

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