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3D printing: Low-income housing

By Damien Boisvert and Flint Berberich

Our mission is to give access
to cheap or free housing to
those who cannot afford it.

Here's how.

The big problem

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If you have been in San Francisco, or any big cities, especially after 2020, you would most likely have noticed how there are so many homeless people living on the streets—580,000 in 2022, to be specific. This is a big problem, and must be addressed. *This isn't to say that there has not been much progression on this issue*, but rather, that the solutions have not been working, as seen with the statistic that 60% of homeless people who were offered a shelter *refused it*, and chose a life on the streets rather than going to a shelter.

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(In San Francisco, according to Mayor London Breed)

How are we any different?

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As mentioned before, 60% of homeless people refused the shelter that was being offered to them. Some common responses include *"It wasn't what I was looking for"*, which is fair, except for the fact that they can't just be living on the street—They are making many people uncomfortable while loitering around public. Take the Lee Garner Park, in downtown Novato. During the pandemic, and also after, it was a large homeless encampment. Some friends of mine stated that *"During that time, I didn't do there [Marin County Free Library], because the encampment made me uncomfortable, with the people, and also with the odor."* This shows two big problems with camping, which I will address soon.

The Ideal Solution

The ideal solution will be giving people real houses—Cheap, but still functional. We think that a law stating that homeless people are not allowed to stay / loiter on public property, while shelter is being offered will work. This way, we can have the people say yes to our shelter, and get them to become contributing members of society.

We will be making 3D printed concrete houses, because concrete is cheap (\$4 - \$8) per square foot, and 3D printing will cut down on human labor cost.

How will we do that?

3D Concrete Printing

Using 3d printing using concrete, we can make these houses cheaper, and use the saved money to make more houses. This cuts down our human labor cost.

Your money!

With your funding, we can make this vision a reality!

What comes next?

Here are a few things that can happen!
Hold onto your butts!

Creating contributing members of society!

We are thinking of a potential idea of having resources for people who have drug problems, alcohol problems, etc; so they can contribute back to society, and have one more person helping, who was previously one more person sleeping on the streets! This idea is not finalized yet, this is a long-term idea that will only happen with extra funding.

One part of this plan is already in action, with us requiring all people to have some job, and if they can't get one, we'll provide.

Just one problem...

MONEY!

We are currently unable to put this plan into action, as we are short in funds. To be blunt, take out your wallets! With this plan, we can get people off the streets and get them to contribute to society.

- Examples of funding sources:
- City of Novato
 - FEMA Federal Emergency Management Agency
 - HUD (Housing and Urban Development)



That's all, folks!!!

BEFORE YOU GO!

Check out this project at:
alphagame.dev/school/cheapouse2024

Thank you for your time.

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STEM Marin; class of 2027