SOFTWARE ENGINEERING II : MGMT, MAIN AND QA
PROF. GIRIDHAR AMARAVADI
TA : ROSENKRANTZ TODD

ELEVATOR SPEECH – A PITCH TO AN ANGEL INVESTOR FOR START-UP FUNDS

IDEA – 3D PRINTING – BUILD SMALL SCALE HOUSES (LESS SQ.FT), WORKSHOP UNITS, ETC.

SCRIPT SUMMARY

I) Introduction about me in one line.
II) Introducing the topic to Investor
III) Describing the problem
IV) What we do
V) Solution and pros of the concept
VI) Uniqueness
VII) About the Team
VIII) Current Progress
IX) 3D Printing in real-world – Provided an Example
XI) Reason for Funding
X) Conclusion

THE SCRIPT **Hello I'm Jahnavi, currently pursuing my Master's in CS at University of Texas at Arlington**

So have you ever thought of printing houses in less than 48 hours? Wouldn't you want to know how they do it? Well, I'm talking about 3D printing technology.

These days there's a desperate need to construct more houses quickly to get more revenue. The main problem here is that, an enormous amount of waste is being generated with labor shortages.
So with the help of 3D printing technology, our idea is to build tiny houses like ADU (Accessory Dwelling Unit), Workshop Units, Houses with less Sq Ft and then posting them on Airbnb, etc. For example, consider a holiday destination, where one has to go to a motel from a remote place, so finding such remote places and building them will be our target. Well, such houses and this concept isn't yet into the market, so we'll have quite a margin by locating such places, and then we can move on to huge projects gradually.

We'll use the generated profits on the technology, to improve scalability and performance. With 3D printing, there will be less labor cost, lower time utilization and can generate more designs.
Coming to our team - We're a team of 4 members. I'll be taking care of programming solid structures of all shapes and sizes and deal with scalability. Others will take care of 3D Modeling, R&D, Architecture, and Industrial work. So right now we're in the stage of building a mini-sized workshop. It builds using data from the integrated data models created, reads, and then prints it with the help of machines. It works the same way for a bigger prototype too but the type and amount of material proportions would differ.

While considering this in reality, the first-ever house was built in a rural part of Mexico where the news was first published on February 06, 2020. The impact created was tremendous and the responses turned to be pretty optimistic.

So the average cost of a 350 sq. ft 3D printed house would cost around $10,000 which saves us around 80% of expenditure from the traditional way. Human workers can only install windows, doors, plumbing, and other electric systems. We're currently trying to build a mini-workshop in 100 sq. ft to check the feasibility and this would cost around 800$ (That's like an iPhone cost!!!) and we're in the designing stage. Now, this **is a low investment approach with high returns**.

Anyways, this is our idea and I want you to take my business card, it has my email, number and a website link where all our work has been posted. If you'd like to consider our idea and collaborate please reach out directly.
Thank you very much!