



TECHFEST '20

Why did you choose this idea for your project and how did you come up with it?

We chose to make a walking and moveable robot because we wanted to learn how robots can mimic human actions and human behaviour. Movement is also a key aspect to all robots hence we wanted to learn how it works and hence we decided to try it out.

KANAV AND KUNAL

How did you organise yourself/ your team throughout the planning process?

I had my exams while we had to submit the techfest. So we did not get much time to plan and organize ourselves too much. We just sat one long weekend and finished it off. Though we did plan how we would make the robot before my exams.

To what extent did you achieve your outcomes? What are the various applications of your project?

We completely achieved our outcome and we did even more than we had aimed for. We were able to make the robot fully move and walk and we also added the ultrasonic sensors, so now the robot will move completely on its own. So if it senses a wall it will stop or turn etc. So we were able to achieve what we had planned to do.



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**PARAM KOTHARI,
HRIDAY RAJANI,
SHANT HINGORANI
AND MOHAMMED
MAHDI MEWAVALA**

Why did you choose this idea for your project and how did you come up with it?

We saw a similar project on youtube and decided to add the thermoelectric plates and use only tea lights and cold water to power a fan..

How did you organise yourself/ your team throughout the planning process?

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To what extent did you achieve your outcomes? What are the various applications of your project?

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PARTH JAIN

Why did you choose this idea for your project and how did you come up with it?

I discovered this project on the arduino website, it seemed interesting so I decided to make it.

How did you organise yourself/ your team throughout the planning process?

I waited until my father got the components, then I saw a diagram and assembled it over 2 days and once I made it a component got rusted and spoiled. So once my father got a new one I remade it over another 2 days and then we faced a problem because the car kept on going ahead and behind even if anything wasn't there in front of it. Turns out that the ultrasonic sensor had overheated.

To what extent did you achieve your outcomes? What are the various applications of your project?

I completely achieved my outcome, I was able to assemble the obstacle avoiding robot completely and whenever the car met an obstacle it reversed, turned and went in another direction. This way I was completely able to achieve what I had planned and expected.



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ZAYEE AND ARIAN

Why did you choose this idea for your project and how did you come up with it?

We chose this project because we realised how hard online school is, and we wanted to make the process a little easier for both teachers and students

How did you organise yourself/ your team throughout the planning process?

We didn't organise ourselves at all - we actually required an extension as the due date was during our exams.

To what extent did you achieve your outcomes? What are the various applications of your project?

We entirely achieved our outcome. We came up with three main programs that we thought were most important, and executed them through Python (programming language)



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FAHAN, KRISH, DEVANSHI, AYUSHI, AND MIRAYA

Why did you choose this idea for your project and how did you come up with it?

We wanted to do something hands-on so that we don't miss life in 2019 too much and we also wanted to make something interactive and something we can really use. We came up with the idea of making a washing-machine and some online games.

How did you organise yourself/ your team throughout the planning process?

We organised ourselves by dividing our group into 2 parts. 2 of us made the washing machine and 3 of us made the games. We made the dance video together and also gave suggestions to our other group members.

To what extent did you achieve your outcomes? What are the various applications of your project?

We were very happy with our outcome and we



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Why did you choose this idea for your project and how did you come up with it?

I love dragons, and I wanted to explore Blender. It was an obvious choice..

SHIRAZ

How did you organise yourself/ your team throughout the planning process?

Organise? Nothing about my project was remotely organised..

**To what extent did you achieve your outcomes?
What are the various applications of your project?**

I achieved my outcome to the fullest extent! I love what I ended up with. At first, I just wanted to make a dragon. In the end, it had texture and animation as well. I used Blender for this project.



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ARJUN AND VEDANT

Why did you choose this idea for your project and how did you come up with it?

We chose this idea because we thought that during lockdown everyone is online and needs cyber safety, fun games to play to get over frustration and even some online tools to help themselves out. We came up with this idea by looking at 3 problems students may face online..

How did you organise yourself/ your team throughout the planning process?

We went to 4 basic steps to organise ourselves: We looked at problems we solved and came up with ideas. We compared ideas and chose what we wanted to do. We started creating the prototype and started filling out the 1 pager. We shot our video explaining our idea

To what extent did you achieve your outcomes? What are the various applications of your project?

We achieved our outcome to the fullest extent as the code was working perfectly and we were able to add some really cool features to the project!



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