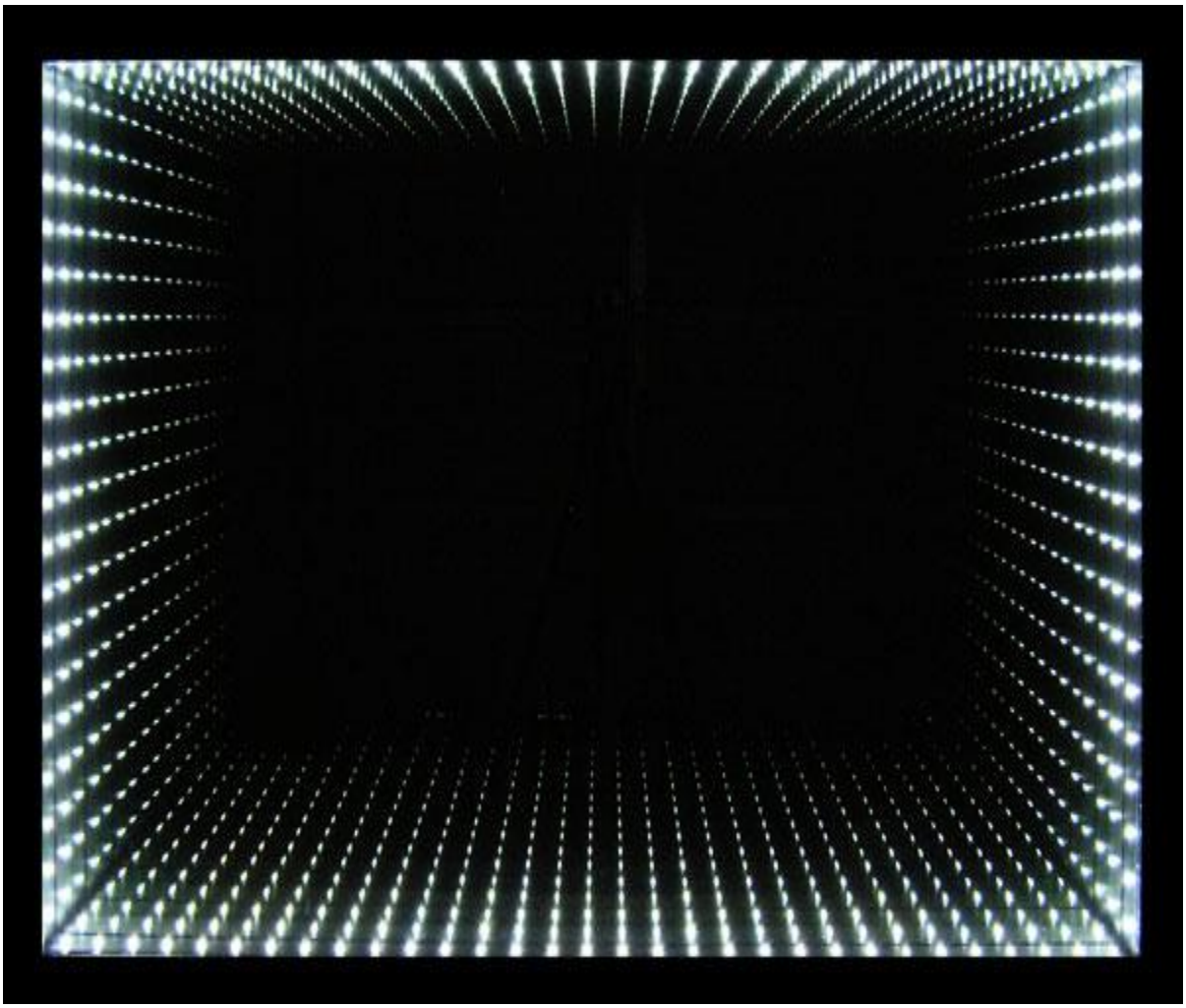

The Infinity Portal

Password-Casemod

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Introduction

This project is not an ordinary computer case, and is certainly different from what you would find in retail stores. The name of this case mod is called "The Infinity Portal", modeled after a light effect seen only using mirrors. The people who participated in this project are students that attend A&M consolidated high school. They are currently enrolled in the career and technology courses, and these kids are Collin Christian and Alex Hanks. This consisted of a lot of planning and was well thought out, and planned since November. The Idea of The Infinity Portal, is to use a light effect and manipulate it to a shape, to illustrate a portal illusion to the observer. This proved to be a very interesting project, and popped a lot of ideas about what we could do with it.

Project Overview

The purpose of this project is to build a custom computer case for the SkillsUSA Casemod Competition. This will be done with a pair of students from A&M Consolidated High School who are Alexander Hanks and Collin Christrian. The custom computer case will be a cube of Infinity Mirrors. This cube has a configuration of two parallel mirrors with a strip of LEDs in between. This in result will create a series of much smaller mirror reflections, which will give it its infinite illusion to the observer. This computer case will also have the option to change colors along with a system to swap out the computer. The project's workload will be divided between the pair. Alexander will be constructing the computer case's exterior along with designing the computer swap system. Collin will assemble the computer and install it inside the computer case. The operating system, customizations, system tweaks, and more will be done in collaboration.

Recorded Work Days

November 9th

- Presentation for Approval

November 12th

- Design the Computer Case
- Budget the Computer Case
- Go Over Computer's Specs
- Order Parts
- Plan work Days

December 9th

- Complete the Rough Draft For the Computer Case
- Measure the Computer Cases Interior
- Install Parts

December 11th

- Rework The Case Design

January 16th

- Cut The Mirrors and Plexiglass

January 28th

- Install The Mirrors and Plexiglass
- Route The LEDs
- Install the Velcro Back Cover
- Route Ventilation and Take Thermal Measurements

February 1st

- Install the Computer Inside the Case
- Install the Operating System
- Install System Tools to record the Computer's Performance
- Customize the Operating System
- Make preparations for the upcoming competition

Supplies and Budget

Item	Price
Mirrors	$82.00
Plexiglass	$50.00
Window Film	$5.00
LEDs	$80.00
Metal Tape	$8.00
Staple Gun/Staples	$20.00
Motherboard	$60.00
SSD	$20.00
SATA Cables	$3.00
Power Supply	$40.00
LED Wireless Gateway	$30.00
TOTAL	**$398.00**


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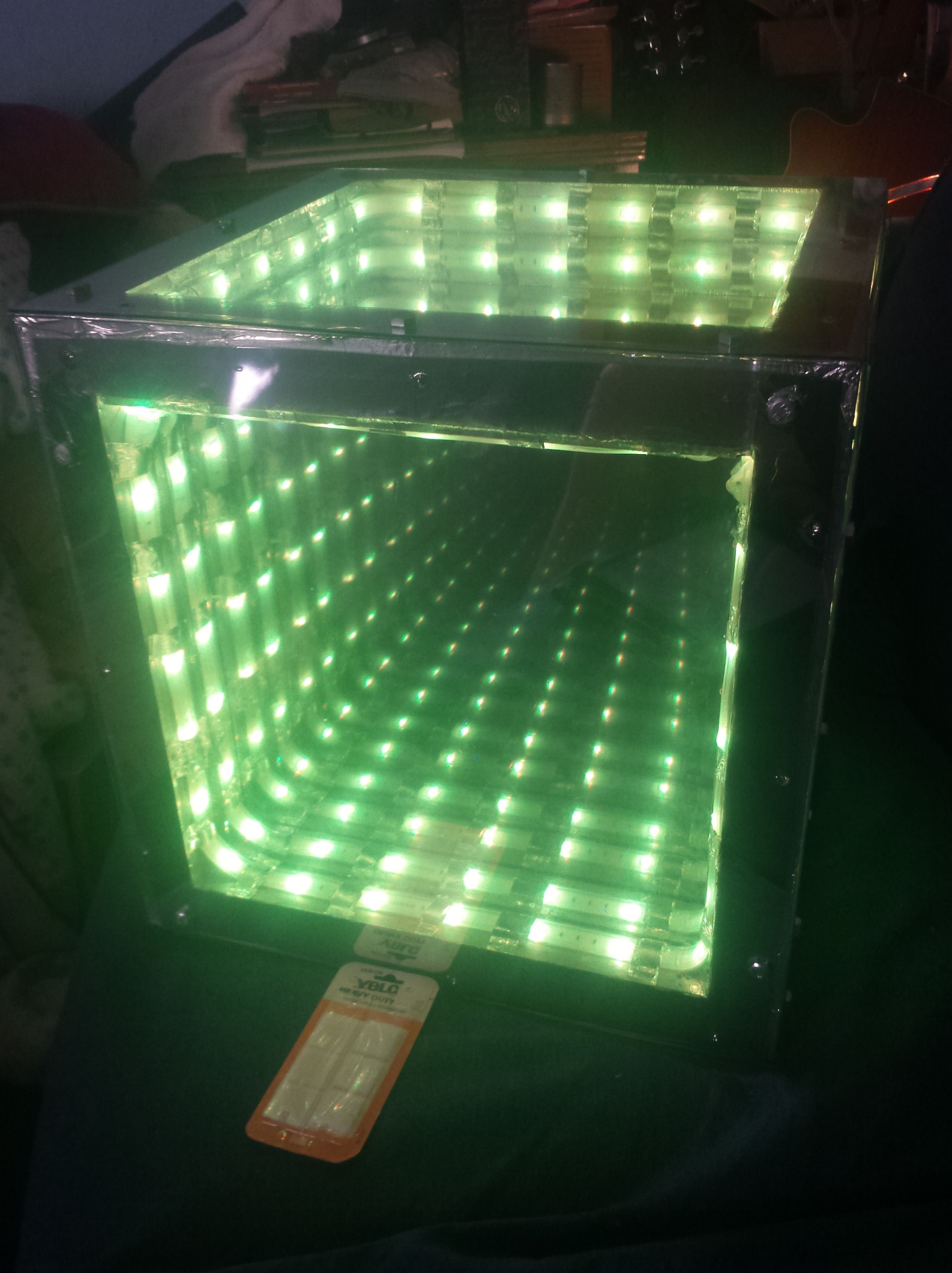
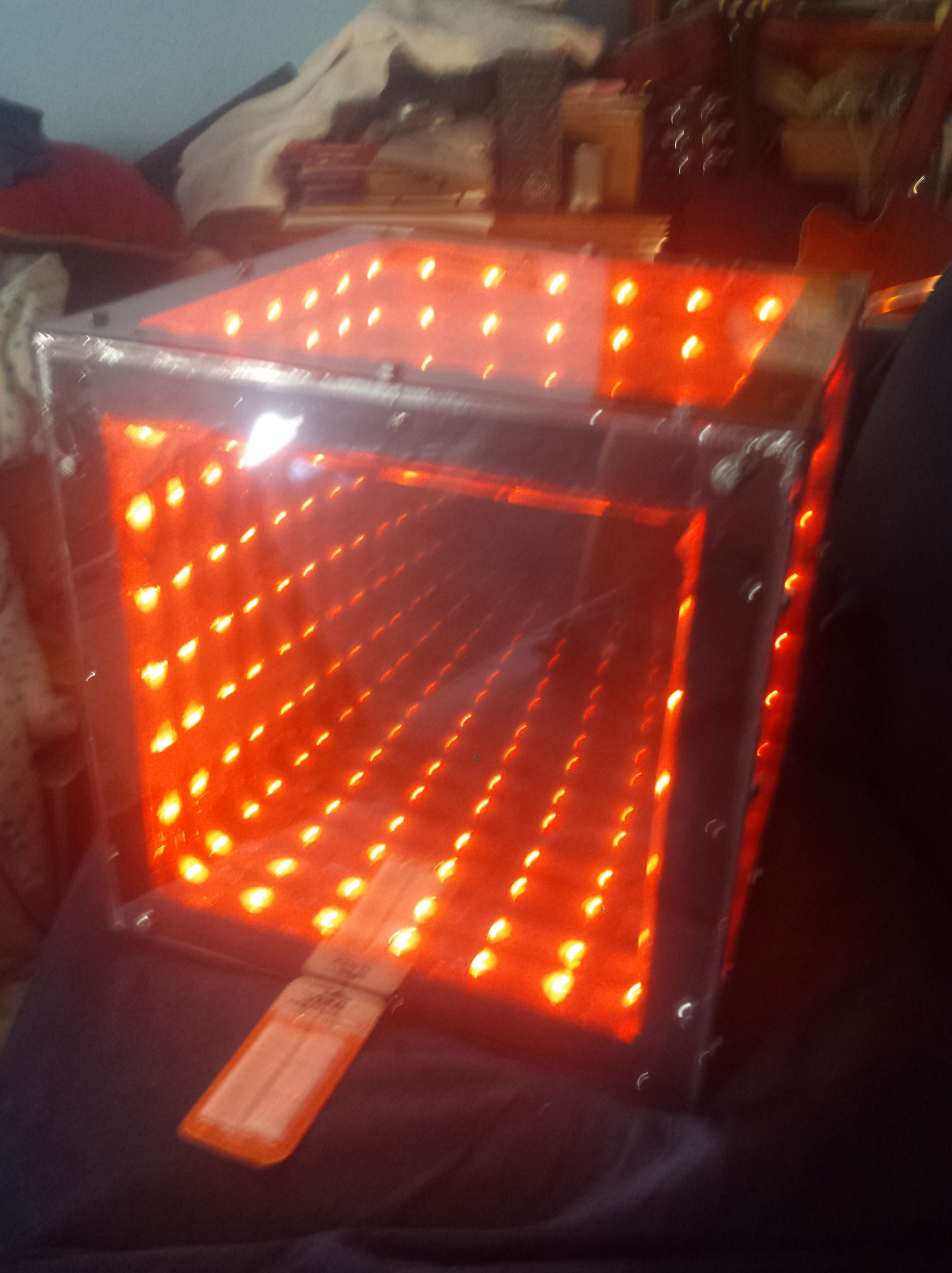



The Infinity Portal



Conclusion

In conclusion this casemod provided a challenge for us when it came to constructing it. We originally intended to do a pyramid, but luckily we had an excess of resources such as plexiglass and mirrors. We decided that in the end we would construct a cube to give it more of a futuristic look, and add another side with the infinity effect. We ran into problems such as gluing the lights, so we ended it off stapling straps to the sides. Because of this, it luckily gave it some borders which gives a wormhole look, leading to the idea of a portal illusion. I am going to be honest, I'm so happy we measured everything before we started constructing the project because, if you had one side off by even a millimeter, the whole project would be ruined. Thankfully everything turned out right, excluding the gluing the lights.Overall this casemod turned out to be very fun and it gets us thinking about what other ideas could be added to this.