CALIFORNIA STATE SCIENCE FAIR
2015 PROJECT SUMMARY

Name(s)
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Project Number
35752

Project Title
3D Perspectives: Applying Parallax to Create 3D Video

Abstract

Objectives/Goals
The objective of this project is to see which distance between two cameras edits together to make the most preferred 3D video.

Methods/Materials
Thirty-six subjects were shown three 3D videos created with two identical flip cameras and iMovie editing software. Viewers' preferences were collected through an online survey.

Results
Five of the subjects chose Video A, made with camera lenses set a 63mm apart. Twelve people preferred Video B made with lens distance of 54.25mm. Nineteen of the subjects preferred Video C made with 58.25mm distance.

Conclusions/Discussion
Video C was the most preferred by subjects. This result challenged my hypothesis that Video A, based on a researched average, would be the most preferred. This outcome may be because Video C was made with the middle range distance between cameras. However, the presence of unintended variables may have influenced the outcome.

Summary Statement
In this project, three 3D videos were made using the parallax affect by setting two cameras at different distances to test for the best 3D video.

Help Received
My little sister Alison inspired the ideas and was my partner in the whole process; my mom helped type, revise, and keep up with deadlines; my dad helped with setting up the cameras; Roberto Garcia helped me prepare for the RIMS fair; Dr. David Hall helped with research and background; and Tony Palmisano