

## CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)	Project Number
Hani A. Jandali	
Project Title	34814
Anti-Gravity Lifter	
Objectives/Goals Abs	tract
My intention in performing this experiment was to	see if it is relatively possible, and it course to examine
and demonstrate the Biefeld-Brown Effect first hand. From this I wished to learn more about how the	
lifter works, the scientific aspects behind the project and how it falls in accordance with the laws of physics and electrical engineering, and its real world application, such as its poperaial replacement of the	
iet aircraft in flight industries.	
Methods/Materials	0
The materials used were rather simple for such a c	omplex project. They were as follows; aluminum foil,
balsa wood (1/16 inch thick), copper wiring (non-insulated 10 gauge wire) and cyanoacrylate glue. In terms of power source to levitate the lifter. Lused a 12-volt car battery and a transformer to increase the	
voltage to that of tens of thousands. The first step I performed in this orbiect was creating an equilateral	
triangle of balsa wood, which would act as the frame. Next, I uninsulated the copper wiring by running it	
over an open flame, then through coarse sand paper likewise, they proceeded to create an aluminum	
foll skift for the edges of the triangle, rounded on top to anow the electric current to flow through the lifter	
Results	
For the first lifter, with a width of 1 Onillimeters, a height d 75 millimeters, and a mass of 4.3 grams, 29	
thousand volts was required to achieve lift. For the second after, with a width of 180 millimeters, a height of 75 millimeters, and a mass of 6.0 gram. 3) thousand wilts was required to achieve lift. For the third	
lifter, with a width of 200 millimeters, a height of 75 millimeters, and a mass of 8.7 grams, 36 thousand	
volts was required to achieve lift. For the fourth lifter, with a width of 400 millimeters, a height of 90	
millimeters, and a mass of 17.2 grams, 44 thousand, olts was required to achieve lift.	
<b>Conclusions/Discussion</b>	
incorrect. Although I had believes that a there 500 volts would be required to lift the craft, all four	
scenarios tested disproved so, requiring tens of thousands of volts instead.	
Summary Statement	
To levit the an "antigravity" lifter, as well as in turn demonstrate the Biefeld-Brown Effect.	
Help Received	
Father helped with the wiring of the electrical aspect of the project	