

CWSF 2015 - Fredericton, New Brunswick



Lucas Nelson, Justin Paul

The Automatic Drawer

Challenge: Innovation

Category: Junior

Region: Prince Albert & Northeast Saskatchewan

City: Prince Albert, SK

School: East Central School

Abstract: This project idea was to develop an automatic drawer that would open by moving your foot. This would enable people to access their garbage without using their hands. A cabinet was designed that would simulate a garbage drawer. The design required a motion sensor and power supply with the required DC amperage to make it functional. We were successful in creating an operational cabinet.

Biographies

Lucas - My name is Lucas Nelson. I am in grade 8 at East Central School in Prince Albert, SK. I love outdoor activities like driving quads, dirt bikes and snow machines. I play all sports but especially like football. My goal after high school is to become a chemical engineer. My science project is an automatic drawer that opens with motion sensor detection by swiping your foot in front of the drawer. It is meant to be a garbage can drawer. My science partner and I got this idea by watching the Ford commercials that show the back door of vehicles opening with the same technology. My mother's garbage can drawer is broken and opens on its own. We combi...

Justin - My name is Justin Paul. I am in grade 8 at East Central School in Prince Albert, SK. I enjoy doing puzzles, especially solving the Rubik's Cube. I like playing catch with my brother with a football. My science project is an automatic drawer that opens with motion sensor detection by swiping your foot in front of the drawer. It is meant to be a garbage can drawer. My science partner and I got this idea by watching the Ford commercials that show the back door of vehicles opening with the same technology. My friend's mother's garbage can drawer is broken and opens on its own. We combined these two ideas and came up with the automatic drawer idea...

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