

# CWSF 2007 - Truro, Nova Scotia



## Nicholas Crabtree, Nicholas Rebeiro

### Levitate This!!

**Division:** Health Sciences / None

**Category:** Junior

**Region:** Sudbury

**City:** Lively, ON, Sudbury, ON

**School:** R.L. Beattie P.S.

**Abstract:** A closet door was designed using the principles of magnetic levitation to provide an easy sliding, low friction alternative to popular bearing and roller designs. Rare earth magnets were used in the design of a prototype pocket door to achieve levitation with minimal friction. Preliminary tests indicate that this levitating closet door is a feasible alternative to the popular bearing and roller design.

### Biographies

Nicholas - My name is Nicholas Crabtree and I live in Sudbury, Ontario. I have been involved in a number of different sports activities over the years, including hockey, soccer, and speed skating. When I was in grade 5, I developed a keen interest in walking around on my hands! This unusual skill led me to an interest in gymnastics, and since then I have joined a boy's competitive gymnastics club. I have always had a love of music and began to play guitar when I was 8 years old. I have written a number of original songs, none of which have won any Juno awards YET! Summer is my favourite season because it means I can spend lots of time on my dirt bike ...

Nicholas - I am a highly motivated individual who strives for perfection. I have good work habits, and am always willing to input as much time as necessary to get a job done properly. Currently, my goal is to grow up and become a teacher. In my spare time, I enjoy watching movies, listening to music, or hanging out with my friends. Recently, I have won academic awards in the Math-Science Technology Olympics, Mathematics Olympics, Just Do It (integrated technology) and the Grade 7 Math award. In terms of volunteering, I have helped out at my church by serving the after-church coffee and cookies, as well as endless hours scorekeeping at the Sudbury Indoor...

### Awards

### Value

Honourable Mention - Engineering - Junior Sponsor: Youth Science Foundation Canada	\$100
Total	\$100