

# CWSF 2011 - Toronto, Ontario



## Brandon Fillmore

### "LBS" A Turn For The Better

**Challenge:** Innovation

**Category:** Intermediate

**Region:** Chignecto West

**City:** Truro, NS

**School:** Bible Hill Junior High School

**Abstract:** This project documents the development of the Lateral Balance System and its' potential benefits for vehicle handling and safety. A home-designed model was used to show and test the design. The plan for the L.B.S. system is to use pneumatics to eliminate the need for a stabilizer bar, while actively helping prevent vehicular roll-over and loss of control.

### Biography

My name is Brandon Fillmore and I am fourteen years old. This is my first year of entering the Canada Wide Science Fair, and it has been a great ride. I have a passion for everything with wheels and have taken apart and helped fix a few vehicles. I had the opportunity to go to the Historica Fair Nationals in middle school, but had to decline due to a life threatening allergy to milk which I have recently outgrown. I have been on multiple sports teams, the most recent being volleyball. I recently placed second in my school for the Pascal Math Contest. Last year I had the highest marks in my grade. I enjoy wake-boarding, swimming, downhill skiing, biking, and just spending time outside. Each summer, I volunteer to work with young children at the Daily Vacation Bible School at my church. This summer, my Dad and I are driving across Newfoundland on an ATV. I am planning on going to university to become a mechanical engineer or an architect.

### Awards

### Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	\$300
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
<b>Total</b>	<b>\$1 300</b>