

CWSF 2005 - Vancouver, British Columbia



Katherine Brown

Silent Witness

Division: Engineering & Computing Sciences

Category: Junior

Region: Bluewater

City: Owen Sound, ON

School: Hillcrest Elementary School

Abstract: The Silent Witness uses force, rotary motion and switch-voltage system sensors, an accelerometer, interface, and computer software to record what occurs during simulated collisions, using remote controlled vehicles. Extensive testing and analysis determined that the tri-axis accelerometer gave reliable, complete information about rolls, pitches, yaws and impacts.

| Awards | Value |
|---|---------|
| The University of Western Ontario Scholarship Gold Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario | \$2 000 |
| The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario | \$1 500 |
| Silver Medal - Engineering - Junior Sponsor: Youth Science Foundation Canada | \$700 |
| Gold Medal - Automotive - Junior Sponsor: AUTO21 | \$1 500 |
| Total | \$5 700 |