



## CWSF 2015 - Fredericton, New Brunswick



## Sajeev Kohli

## R.E.D.M.A. - Residential Emergency Detecting Multifunctional **Apparatus**

Challenge: Innovation Category: Junior

Region: Waterloo-Wellington City: Waterloo, ON

School: Kitchener Waterloo Bilingual School

**Abstract:** R.E.D.M.A is an innovative system that allows homeowners to monitor the

environmental conditions of their property in real-time via a Smartphone from any remote location. The system also transmits e-mail alerts in the event of a basement flood or fire. The prototype implementation of the

system has a demonstrated accuracy in excess of 99%.

## **Biography**

My name is Sajeev Kohli and I am an eighth grade student in Waterloo, Ontario. I have developed an innovative system that allows homeowners to monitor the environmental conditions of their property in real-time from remote locations via a smartphone mobile application and website. The system detects water, smoke, and high temperatures and transmits e-mail alerts indicating the possibility of a flood or fire to system users. Outside of science fair, I tutor younger schoolmates in French and mathematics. I have also won multiple regional and provincial speaking competitions and have been ranked in the top 5% of all competitors in the Canada-wide advanced mathematics competitions. I am an avid reader and enjoy playing the piano. I am also passionate about science and aspire to someday become a doctor and improve the quality of life of all my patients.

Awards	Value
Canadian Artificial Intelligence Association Award - Junior	\$500
Sponsor: Canadian Artificial Intelligence Association	
The Dr. Lisa Su Award - Junior	\$500
Sponsor: Advanced Micro Devices (AMD)	
Excellence Award - Junior - Silver Medal	
Sponsor: Youth Science Canada	
Western University Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: Western University	
Total	\$3 000





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