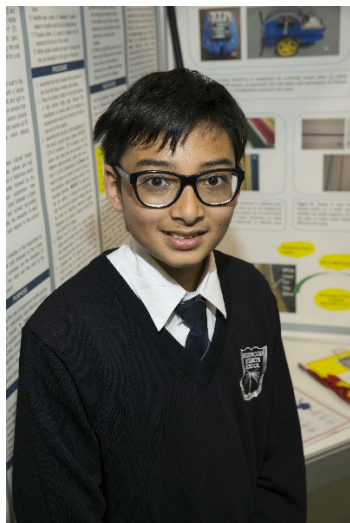


CWSF 2017 - Regina, Saskatchewan



Neil Mitra

iCane The Intelligent Cane: Alternative to Tactile Paving for the Blind

Challenge: Innovation

Category: Junior

Region: Peel

City: Mississauga, ON

School: Sherwood Heights School - Kennedy Campus

Abstract: The iCane is an innovative robotic cane that will allow blind individuals to navigate sidewalks thereby eliminating the use of expensive tactile pavements. It consists of a robot with mounted infrared sensors that can follow thermoplastic paints applied on sidewalks. Overall this will increase the mobility of blind people.

Biography

Neil Mitra is a Grade 7 student in Sherwood Heights School, Mississauga, Ontario. My hobbies include scientific dissections, rubiks cube, and playing soccer. I have received Silver Medal in the Peel Regional Science Fair 2017, runner-up at the Canadian National Mathematics League 2014, and numerous academic honors from school. I am always interested in helping people particularly physically challenged and disabled individuals. Also, my grand mother is almost blind and I felt that I need to come up with a solution that can address blind people in their daily mobility. I have already filed US Provisional Patent for iCane. I plan to fully commercialize this technology that will empower blind person. The advise that I would give to other students is think about innovation and how it can help people and the society.

Awards

Value

| | |
|---|---------|
| Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada | |
| Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University | \$2 000 |
| Total | \$2 000 |