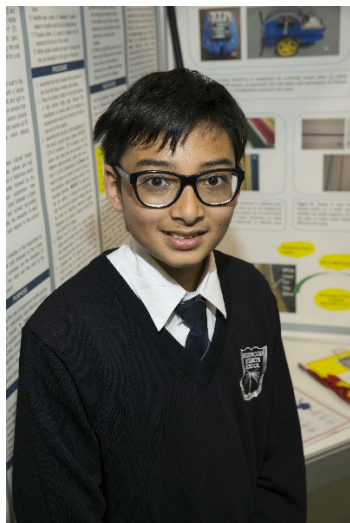


# CWSF 2017 - Regina, Saskatchewan



## 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
<b>Total</b>	<b>\$2 000</b>