# CWSF 2011 - Toronto, Ontario

## Ramaneek Gill

### The Innovative Computer Mouse 2.0

**Challenge:** Innovation
**Category:** Senior
**Region:** Peel
**City:** Mississauga, ON
**School:** Port Credit S.S.

**Abstract:** The Innovative Computer Mouse 2.0 is a desktop application for a Windows PC. The program communicates with the Microsoft Kinect to grab the 3D image that the camera records. My program then processes this raw depth data to look for the positions where the hand is and then emulates the position to cursor movements in order to control the computer mouse with only hand movements.

### Biography

Hi, my name is Ramaneek Gill, I currently attend the Port Credit Secondary school in the Sci-Tech program. I play ice hockey and soccer regularly in leagues and often on school teams. In the future I hope to become an computer engineer or a computer scientist. I won a silver medal in the Peel Regional science fair in Grade 8 and then golds in both Grade 9, 10, 11. I love to play guitar and I enjoy making my own electronics to figure out how they work. Last year in 2010 I attended the Canada Wide Science Fair at Peterborough and earn the silver medal in the Engineering category.