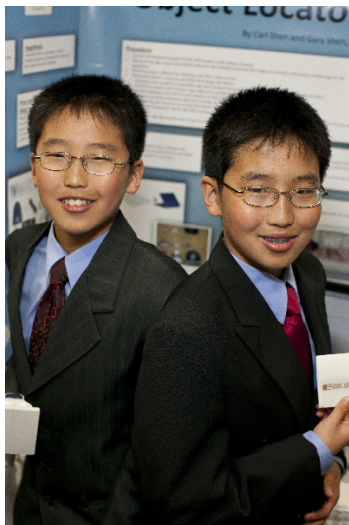


# CWSF 2011 - Toronto, Ontario



## Gary Shen, Carl Shen

### Passive RFID Based Object Locator

**Challenge:** Innovation

**Category:** Junior

**Region:** London District

**City:** London, ON

**School:** Mountsfield P.S.

**Abstract:** We have developed a passive RFID (Radio Frequency Identification) based object locator that can help people find misplaced items at home. This object locator is connected via Bluetooth to a computer and is ideally used for items misplaced within the home. The test results show that our system can significantly reduce time to find misplaced items at home.

#### Biographies

**Gary -** Gary Shen, 13, born in Calgary, Alberta. He moved to London, Ontario with his family at age one. He has been involved in the London District Science and Technology Fair for four years. This is his first time attending the Canada Wide Science Fair. He is involved in many sports. He plays competitive hockey and has been team captain for several seasons. He has also won many individual and team awards. In school he is involved in playing clarinet in band, wrestling, cross country, and basketball. Out of school he plays soccer, hockey, badminton and tennis. He has also been playing piano for about 4 years. He loves reading novels in his spare tim...

**Carl -** Carl Shen, 13, was born in Calgary. He has been involved in many sports and has been playing competitive hockey since 8 years old. His hockey team, the North London Nationals has gone undefeated in previous seasons and has won one Alliance Championship. He has been assistant captain of his team for the past three years. Other sports that Carl plays include tennis, basketball and badminton. He has been competing at the London District Science and Technology Fair for 4 years. He has participated in the PIR Essay Contest for 3 years, placing third once. Carl has played piano for over 4 years and is currently studying for Grade 6 Repertoire and G...

#### Awards

#### Value

Excellence Award - Junior - Bronze Medal Sponsor: Youth Science Canada	\$300
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
<b>Total</b>	<b>\$1 300</b>