

# CWSF 2008 - Ottawa, Ontario



## Philippa Gosine

### InVision: An Intelligent System for Automated Image Analysis

**Division:** Earth & Environmental Sciences / Automotive

**Category:** Intermediate

**Region:** Eastern Newfoundland

**City:** St. John's, NL

**School:**

**Abstract:** InVision is a Matlab program that solves different image analysis problems automatically. Applications include detection of red-eyes in digital images and determining whether a driver of an automobile is fatigued or if he/she is not paying attention to the road. Automated analysis of digital images is important for applications such as analysis of medical images, food product inspection and analysis of security videos.

#### Biography

My name is Philippa Gosine and I am a grade 10 student at Gonzaga High School in St. John's, Newfoundland. When I graduate from high school, I am considering becoming an engineer since I want to make a difference in the world where technology is very important. As well as excelling academically, I enjoy both music and sports. I am part of an internationally renowned touring choir called Shallaway with whom I am participating in Song Bridge in Denmark this summer. For the past four years I have been selected as an apprentice with Shallaway to work as a mentor to the youngest children in the choir. I sing in both the concert choir and chamber choir at Gonzaga and I have played violin for 10 years. I am a member of both the St. John's Sea-Stars synchronized swimming team, which competes provincially and within the Atlantic Provinces, as well as the Gonzaga rowing team. I will also be traveling to the National Leadership Conference with my school in PEI. In my spare time I enjoy spending time with my friends, photography, reading, art, volunteering and traveling.

#### Awards

#### Value

The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Automotive - Intermediate Sponsor: AUTO21	\$300
Silver Medal - Computing & Information Technology - Intermediate Sponsor: Intel of Canada, Ltd.	\$700
<b>Total</b>	<b>\$3 500</b>