



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





