

CWSF 2007 - Truro, Nova Scotia



Collin Fair

Object Recognition

Division: Earth & Environmental Sciences / None

Category: Junior

Region: Central Alberta

City: Carstairs, AB

School: Deer Meadow School

Abstract: This innovation examines the potential for using a computer program and an image acquisition device to recognize 2D objects. The idea was tested by developing a Visual Basic 6 (VB6) program that used advanced object recognition algorithms and testing a web camera and scanner as image acquisition devices. The innovation was successful in providing simple 2D object recognition.

Biography

Hello, my name is Collin Fair. I consider myself to be very helpful, curious, and inventive. I am fluent in a wide variety of computer programming languages (eg PHP, VB 6, Actionscript), and I am enrolled in the French course at my school. I regularly integrate hardware (ie micro controllers) with software programs. I volunteer in many school activities, such as helping staff and students with their computer related problems, helping at fundraising events, and participating in my school's mentoring program. My interests are computer programming (as hinted above), tinkering with electronic devices, biking, and swimming. My favorite magazines are Make:, Popular Science, PC World, and Consumer Reports. I have an interest in renewable energy as a way to reduce global warming. I am planning to go into a post-secondary education program that deals with computing science, networking, and engineering, and am scheming to start my own computer-related business. My main achievements are science fair related, having been in science fair grades 1-7 along with going to the regional level for the past 3 years. I also am a participant in my school's honour and jazz band programs.

Awards

Value

The University of Western Ontario Scholarship Gold Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
Gold Medal - Computing & Information Technology - Junior Sponsor: Intel of Canada, Ltd.	\$1 500
Total	\$3 500