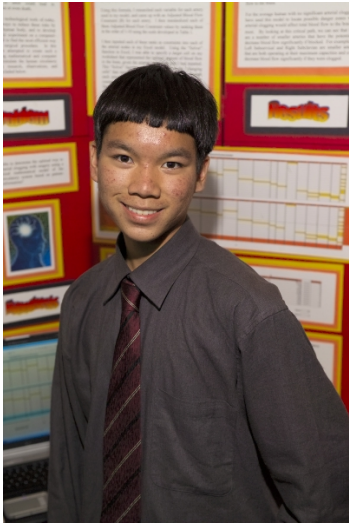


CWSF 2005 - Vancouver, British Columbia



Brian Le

Heart & Keystroke: Simulating the Human Circulatory System

Division: Health Sciences

Category: Intermediate

Region: Bay Area

City: Hamilton, ON

School: Westdale Secondary School

Abstract: To determine the optimal way to relieve arterial clogging using patient-specific information, a computerized model was developed using the characteristics of the main arteries connecting the heart to the brain. This simulated human circulatory system provides doctors with an effective way to perform sensitivity analysis to determine optimal surgical procedures.