

CWSF 2009 - Winnipeg, Manitoba



Greg Koestler, Clay Schroeder

Mario from Scratch

Division: Earth & Environmental Sciences / None

Category: Senior

Region: Windsor

City: Leamington, ON

School: Leamington District H.S.

Abstract: We programmed a replica of the classic Super Mario Bros. arcade game in the MIT programming language, Scratch. This program uses scrolling, threads/synchronization, and events to allow the Mario sprite to explore 8 levels, advancing through the game based on points accumulated. Gravitational force, velocity and acceleration are simulated, and are used in conjunction with animation techniques to achieve realistic movement in two dimensions.

Biographies

Greg - My name is Greg Koestler, I am a grade 11 student currently at Leamington District Secondary School. I was born and raised in Leamington and have always lived on the family farm. Some of the hobbies that I enjoy are, playing hockey, working out, biking, and playing video games. For the past four years I have been playing AAA hockey in various cities such as Windsor, Chatham and Sarnia. While playing at this very competitive level of hockey I have been able to maintain an average in school that is above 80%. After high school I plan to further my education by going to University and studying computer sciences, or accounting, and ultimately one...

Clay - My name is Clay Schroeder, and I go to Leamington District Secondary School. I am currently in grade 11 and play, basically, every sport in the book. My favorites include: Hockey, Volleyball, Badminton, Soccer, and Tennis. I also strangely, according to many, play piano in my spare time. I also enjoy competing in track and field, and have been to OFSAA, the past 2 years in a row. I am currently ranked 3rd in the province of Ontario, for pole vault. I have also received athlete of the year, the past 2 years in a row, at LDSS. I also take academics very seriously; I have won the Pascal and Cayley Math contests at LDSS in grade 9 and 10 respecti...

Awards

Value

The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Bronze Medal - Computing & Information Technology - Senior Sponsor: Intel of Canada, Ltd.	\$300
Total	\$2 300