

## ESPC 2009 - Winnipeg (Manitoba)



### Greg Koestler, Clay Schroeder

#### Mario from Scratch

**Division:** Sciences de la terre et de l'environnement / Aucun

**Catégorie:** Sénior

**Région:** Windsor

**Ville:** Leamington, ON

**École:** Leamington District H.S.

**Sommaire:** 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 respectively...

#### Prix

#### Valeur

Bourse d'études de l'Université Western Ontario	1 000,00 \$
Médaillé de bronze - Bourse de début d'études de 1 000 \$	
Commanditaire: Université Western Ontario	
Bourse d'admission de l'Université d'Ottawa	1 000,00 \$
Médaillé de bronze, sénior ? Bourse d'admission de 1 000 \$	
Commanditaire: Université d'Ottawa	
Médaille de bronze - Sciences de l'informatique - Sénior	300,00 \$
Commanditaire: Intel of Canada, Ltd.	
Total	2 300,00 \$