Arash Marzi
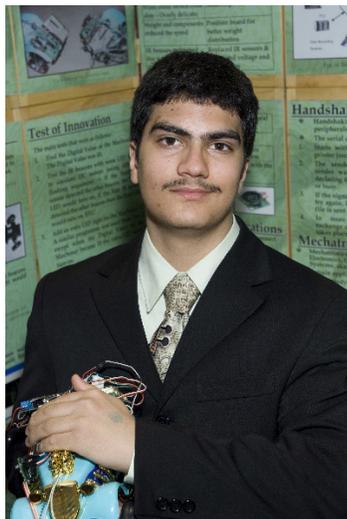
W.C.A.R. Wireless Controllable Autonomous Robots

Division: Earth & Environmental Sciences / Automotive
Category: Intermediate
Region: Strait
City: Antigonish, NS
School: Dr. John Hugh Gillis Regional School

Abstract: This project consists of the design, development, and applications of a pair of robots that can follow each other, one is remote controlled the other is autonomous. Multiple integrated technologies such as mechatronics/robotics, embedded systems, processors, and handshaking, played important roles in the design process. Because of their capabilities the robots have original and lifesaving applications. This project is in its second round of development

Biography

I am currently fourteen, in grade nine pre-IB and live in Antigonish, NS. I have many accomplishments, the main one is completion of two first year University courses on C programming at StFX, with one of the highest marks in class. I completed an online Gaelic course from St. Anna's Gaelic College. I have a black belt in Tae Kwon do. I've played the violin for 5 years. I am in my school's concert band, math league, newspaper committee and I have been assisting the Antigonish Community Science Center for 6 years, and plan on teaching a robotics workshop for this year's summer's camp. My interests range from computer science, neurology, math and science to history. I want to design an electric-powered car and to make a human useable AI interface. I enjoy literature from the 1800s like Fyodor Dostoevsky's Crime and Punishment and Oscar Wilde's Dorian Gray. Also I like fantasy/fiction books like the Dragon Lance and Silverwing trilogies. I listen to rock, alternative, hip-hop, Celtic and intrumental music and play various video games. I am fluent in Farsi, English and learning Gaelic and French. I am very close to starting my own independent game development company.

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