



ESPC 2014 - Windsor (Ontario)



Biographie

I am Aleksa Bjelogrlic, a grade ten student at Central Secondary School in London, Ontario. My goal is to study electrical engineering. I am also quite interested in the software side of things. Since my last science fair project, I dived into hobbyist electronics and even tried to integrate them with school projects. To demonstrate the kind of electronics that go into hobbyist satellites, I used a solar panel to power a text-to-speech module singing "Space Oddity" in time with the real song playing in the background. This project was inspired by a program on making your own radar system from MIT OpenCourseWare. I learned some radar theory from the program and decided to make a ground-penetrating radar that could be used by humanitarians to detect landmines. I plan to release this project as open-source and continue to make the system more compact and accessible to humanitarians. My advice for other people looking to do a science fair project is to never go into anything with assumptions about the results; it can cause you to repeat a test over and over expecting a different outcome (to go insane by Einstein's definition).

Aleksa Bjelogrlic

Autonomous Landmine Detection System

Défi:	Innovation
Catégorie:	Intermédiaire
Région:	Thames Valley
Ville:	London, ON
École:	Central S.S.
Sommaire:	There are 110 m

Dommaire: There are 110 million landmines buried at former combat sites around the world, endangering the general populace and demining personnel. A cost-effective mobile Autonomous Landmine Detection System is proposed. The Ground Penetrating Radar component was reduced to practice and confirmed to be working.

Prix	Valeur
Prix d'excellence - Intermédiaire - Médaille de bronze	100,00 \$
Commanditaire: Société de gestion des déchets nucléaires	
Bourse d'études de Western University	1 000,00 \$
Médaillé de bronze - Bourse d'admission de 1 000 \$	
Commanditaire: Université Western	
Total	1 100,00 \$



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