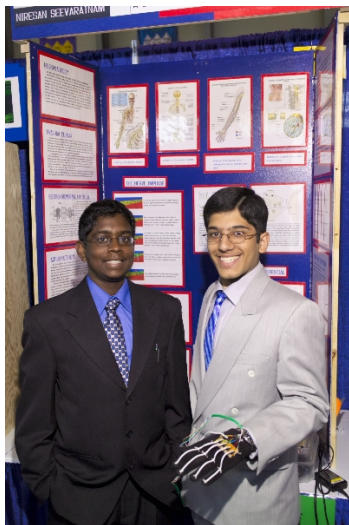


## CWSF 2005 - Vancouver, British Columbia



### Niresan Seevaratnam, Miaad Aliroteh

#### An Arm That Gets On Your Nerves

**Division:** Biotechnology

**Category:** Intermediate

**Region:** Toronto

**City:** Toronto, ON, Scarborough, ON

**School:** Marc Garneau Collegiate Institute

**Abstract:** We aim to improve current prosthetic arms by providing a greater degree of mobility through interfacing an integrated circuit with the residual axons in the Brachial Plexus. This IC would analyze incoming neurological impulses analogous to a Resistor Capacitor circuit, and translate them into digital signals recognized by the prosthetic arm.

Awards	Value
The University of Western Ontario Scholarship Gold Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
Gold Medal - Biotechnology & Pharmaceutical Sciences - Intermediate Sponsor: Rx&D Health Research Foundation	\$1 500
Total	\$3 500