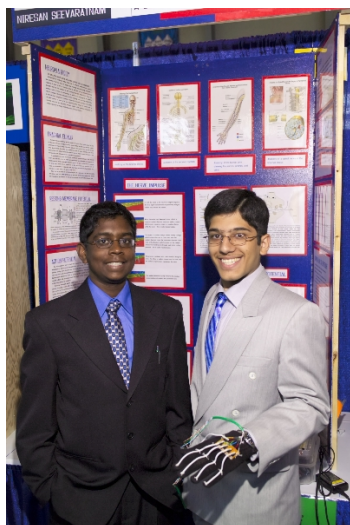


CWSF 2005 - Vancouver, British Columbia



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 |