

## CWSF 2013 - Lethbridge, Alberta



### Krishshain Nathan

#### Automatic CPR Device

**Challenge:** Innovation

**Category:** Junior

**Region:** Annapolis Valley

**City:** Falmouth, NS

**School:** King's-Edgehill School

**Abstract:** My project is an invention: The Automatic CPR Device. This device will perform CPR on an unconscious victim, perfectly and with no labor! CPR saves 2 million lives each year; this device was made to increase that number. There are three main components: a timer circuit, a relay, an electric actuator (piston like device). These components work together to enable this device to save lives!

#### Biography

My name is Krishshain Nathan. I am a grade eight honors student. I go to King's Edge-hill School in Windsor, NS. I like to swim, play soccer, and ski. I volunteer at a nursing home every Monday and at a hospital on Saturdays. My hobbies are painting, sculpting and playing video games. My main interest in school is the science of the human body. I am planning to become a surgeon. In 2012 I got a first place ribbon at my school science fair and was qualified to go to the regional science fair for my project the "Musical Water Fountain". This year (2013) I got second place in my school science fair and I am going to nationals! My inspiration for my project the "Automatic CPR Device" came when my class took a CPR course. After I saw my classmates do mistakes and get tired after a few seconds, I created this device to perform better CPR with little human effort. Further improvements include adding a breathing apparatus to do the breathing. The best advice I could give to someone doing a project is never give up, anything is possible because science is endless.

#### Awards

#### Value

Excellence Award - Junior - Bronze Medal Sponsor: Youth Science Canada	\$100
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
<b>Total</b>	<b>\$1 100</b>

