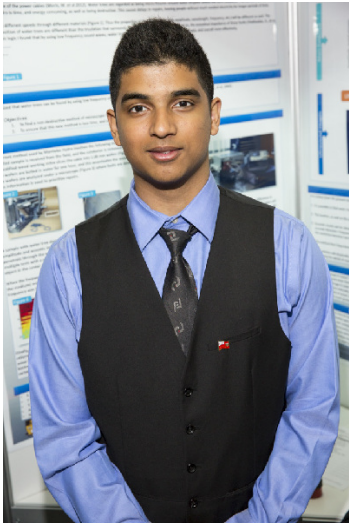


## CWSF 2015 - Fredericton, New Brunswick



### Talha Suboor

#### Ultrasound Flaw Detection in Underground Power Cables

**Challenge:** Innovation

**Category:** Senior

**Region:** Manitoba Schools Science Symposium

**City:** Winnipeg, MB

**School:** Fort Richmond Collegiate

**Abstract:** Majority of power outages are caused by power distribution failures, which are caused by the formation of underground water trees in the insulation. The current technique to find these faults is time, and energy consuming, which means that people are left without much needed electricity longer. I found a less time, and energy consuming way to find these faults, using low-frequency ultrasound waves.

#### Biography

My hobbies include science, tae kwon do, playing sports and hanging out with my friends. I got the inspiration for my project from all of the power outages that occurred in Manitoba in the winter and spring. I plan to try to make a version that is completely non destructive, and doesn't require a sample from the field. My advice to students thinking about doing a project is to find an issue/topic that interests you, and do your best to do a project on that, because if it doesn't interest you then you won't be putting your all into it.

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