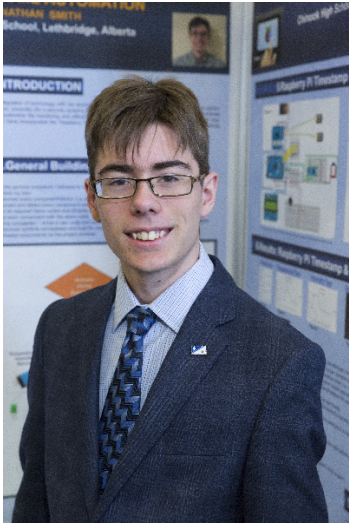


CWSF 2018 - Ottawa, Ontario



Jonathan Smith

Arduino Home Automation

Challenge: Innovation

Category: Intermediate

Region: Lethbridge

City: Lethbridge, AB

School: Chinook High School

Abstract: I developed an Arduino based Home Automation System that can detect temperature, humidity, water detection, proximity, light, IR Remote, and Bluetooth. My cost-effective prototype allows people to control and monitor their homes by detecting unwanted situations and triggering preventive actions.

Biography

I am currently a student at Chinook High School in Sourthen Alberta. I am fluent in both French and English. Since an early age, I have been interested by photography and technology. I love to explore with older technology and modern technology. In the recent years, I developed an interest in computer programming and started to learn various computer languages. My favorites are Arduino and MS-DOS. I originally got the idea to build my "Arduino Home Automation" after seing many home automation advertisements on various media. Intrigued by the whole idea, I thought it would be interesting to challenge myself to create my own version of these systems. In the future, I plan to take my project to a next level by installing it into a home, adding a Graphical User Interface (GUI), expanding the security and home automation features, and investigating into using wireless data transmission. If I were to give any advice to someone wanting to do a project it would be: "This is going to be a challenge, but do it, it is worth it".

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