

CWSF 2015 - Fredericton, New Brunswick



Noah Bergmann

The Modex: Real Time Musical Analysis

Challenge: Innovation

Category: Senior

Region: Cariboo Mainline

City: Merritt, BC

School: South Central Interior Distance Ed.

Abstract: The Musician's Toolbox is an app that allows amateur musician's access to abilities previously restricted to professional musicians. The Modex section allows musicians to create a bridge between songs, for continuous play or medleys. Finally, is a section of the app that can "read" chords from a song in real time, allowing the user to play it on their own instrument.

Biography

I have been enrolled in distance education at SCIDES my whole life, without ever attending public school. This has allowed me extra free time for my hobbies and interests. My major hobbies are hiking, biking, video games, movies and programming. I have learned programming through my science fair project "The Modex", and have been able to release the app on the app store despite no formal training. So far I have moved about 500 units on the app store, and look forward to more apps I could develop in the future. I got the inspiration for my project from my uncle Tim, who invented the original Modex in a physical form. The purpose for this project was to create and sell a digital version of the Modex, which I accomplished. To students thinking of doing a science fair project, I would say to do what you are passionate about, and to work hard to make it happen. In the future I would like to expand the Modex to include a metronome, chord reader, key reader and tone player.

Awards

Value

Excellence Award - Senior - Silver Medal Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship Senior Silver Medallist - \$2500 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$2 500
UBC Science (Vancouver) Entrance Award Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$2 000
University of New Brunswick Canada-Wide Science Fair Scholarship Silver Medallist - \$2500 Entrance Scholarship Sponsor: University of New Brunswick	\$2 500
University of Ottawa Entrance Scholarship Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Ottawa	\$2 000
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$11 000