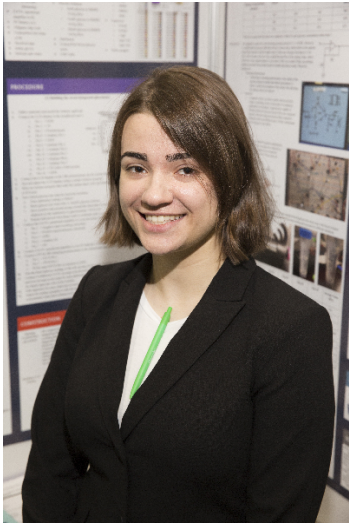


CWSF 2019 - Fredericton, New Brunswick



Anna Tymofyeyeva

An Integrated Glucose Meter Using Sweat Diagnostic Technology for Diabetics

Challenge: Health

Category: Senior

Region: York

City: Thornhill, ON

School: Thornhill S.S.

Abstract: Diabetes mellitus is a chronic disease which causes elevated blood glucose levels and whose global prevalence continues to increase. The symptoms of the disease are currently managed through blood glucose monitoring, a method which is both inefficient and inconvenient for diabetic patients. This platform integrates electrical engineering components with current blood monitoring technology and sweat diagnostics for the improvement of the livelihoods of diabetics.

Biography

Hello, world! My name is Anna Tymofyeyeva. I am currently a grade 11 student attending Thornhill Secondary School. I am a science enthusiast, and I particularly love physics and biology. The inspiration behind this project was an article I read in an issue of New Scientist magazine, which wrote about a radio powered solely by sweat. I integrated this concept into a device for diabetics because of my own personal interests and experiences.

Awards

Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$2 000