Graydon Strachan

MAC-2: Estimation of Weight Using a Modified Blood Pressure Cuff

Défi: Innovation
Catégorie: Intermédiaire
Région: Winnipeg Schools
Ville: Winnipeg, MB
École: Grant Park High
Sommaire: Knowing an unconscious child's weight in a medical emergency is an important detail to calculate and administer medications. Using the CDC National Health And Nutrition Examination Survey data set, I have developed a method of using a modified blood pressure cuff to estimate weight more rapidly and accurately than current estimation methods.

Biographie

My name is Graydon Strachan. I am a grade 9 student in the AP program at Grant Park High School in Winnipeg. Some things I enjoy doing in my spare time include playing soccer, hockey, Roman-Greco wrestling, simulation games, science fair, and cross country running, (which I do better than anything else). I have been doing the science fair for the last 5 years, and my past projects have ranged from videotaping myself jumping in elevators, estimating foot growth, drought-proofing my parent's garden, and even creating artificial muscle from nylon fishing line. As you may guess, I get my ideas for projects from all sorts of places. This year I was particularly interested in the estimation of weight using biometrics after seeing a poster at a medical conference in South Africa that my dad took me to. Every year, I learn a little bit more about the scientific process and how to present my ideas. In the future I plan to continue working in the biomedical field, and perhaps even elaborate upon my existing project ideas.

Prix	Valeur
Prix de La Fondation actuarielle du Canada - Intermédiaire Commanditaire: La fondation actuarielle du Canada	750,00 $
Prix d'excellence - Intermédiaire - Médaille d'argent Commanditaire: Sciences jeunesse Canada	
Bourse d'études de Western University Médaillé d'argent - Bourse d'admission de 2 000 $ Commanditaire: Université Western	2 000,00 $
Total	2 750,00 $