



ESPC 2016 - Montreal (Québec)



Biographie

I am a 12 year old math enthusiast who became hooked on computer programming in grade 4 with the discovery of the MIT Scratch website. This led to my learning of many other programming languages like Python, Ruby, JavaScript, SQL, HTML and CSS. I am proud to say that I have built TCP socket home control systems via the internet, and have found and suggested patches for security vulnerabilities on the Scratch website. In addition to programming, my interests include soccer, volleyball, badminton, snowmobiling, fly-fishing and playing the piano. My science fair project on password strength earned the regional top grade 6 project last year. I have also attended the provincial heritage fair and received the 2015 B.C. Lieutenant Governor Historical Literacy Award for my project on Canada's postal history. Currently, my dream for post-secondary education is to go to MIT and take computer science. The inspiration for my project came as a result of watching a video on advanced TLS. TLS needs access to random numbers, starting my interest in random number sources. My future project improvements include exploring more seed sources, testing different algorithms and expanding my statistical analysis to make my results more accurate.

Dylan Beswick

Really Random?

Défi:	Découverte
Catégorie:	Junior
Région:	Northern British Columbia
Ville:	Hudson's Hope, BC
École:	Hudson's Hope School
Sommaire:	Most of us don't know this, but a secure internet connection relies on
	"random" numbers. Since computers cannot generate truly random
	numbers, we had to come up with an alternative: pseudorandom numbers.
	However, they rely on a good seed source. A bad seed source creates bad
	pseudorandom numbers. In my experiment, I tested different seed sources
	to see which are good and which are not.

Prix	Valeur
Prix de La Fondation actuarielle du Canada	500,00 \$
Commanditaire: La fondation actuarielle du Canada	
Total	500,00 \$



Sciences jeunesse Canada B.P. 297 Pickering (Ontario) L1V 2R4 www.youthscience.ca / info@youthscience.ca 416-341-0040

