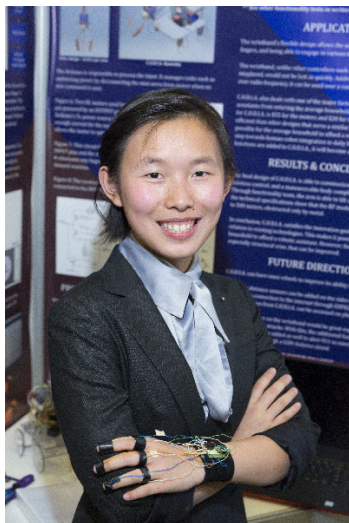


CWSF 2018 - Ottawa, Ontario



Ellie Xu

C.O.D.I.A. (Computer Operated & Delightfully Intelligent Assistant)

Challenge: Innovation

Category: Senior

Region: Bay Area

City: Oakville, ON

School: Garth Webb Secondary School

Abstract: The purpose of my project is to provide the user with an affordable artificial assistant, capable of completing rudimentary tasks. It can be manually controlled over a versatile touchless user interface through monitoring the user's gestures with customized rings and communication over radio signal. As well as to make life easier for the disabled, and a step towards human-robot integration in daily life.

Biography

The name's Xu, Ellie Xu. My domicile resides in Oakville, Ontario. I apply the majority of my hours outside of school to clubs and teams. I am knee deep in these extracurriculars. Seriously, I'm practically submerged. These activities include the robotics team, in which I have been involved in since the ninth grade, and the STEM club that my friend and I started due to the absence of extracurriculars in this area. Moreover, my love for the sciences leads me to found my school's HOSA (future health professionals) chapter. My hobbies include having adventures of the literary nature, ruminating the meanings of life, immersing oneself in the embrace of nature, as well as taking joy in the visual and dramatic arts. I found the inspiration for my project from the breathtaking innovations already in the world; each like a building block that can be pieced together to create much more.

Awards

Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
Carleton University Entrance Award Senior Bronze Medallist - \$1,000 Entrance Award Sponsor: Carleton University	\$1 000
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	\$3 000