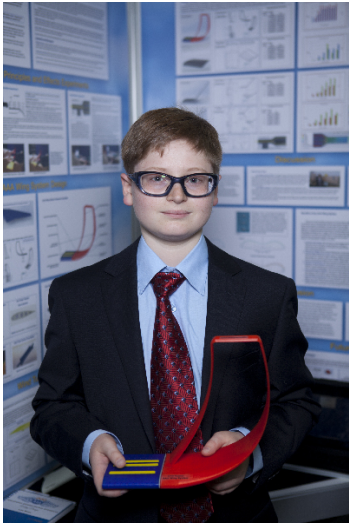


CWSF 2013 - Lethbridge, Alberta



Aidan Aird

Advanced Aerodynamic Aircraft Wing System

Challenge: Innovation

Category: Junior

Region: York

City: Markham, ON

School: Unionville Montessori School

Abstract: The purpose of my project is to prove that my Advanced Aerodynamic Aircraft Wing System that I designed and built using the CAD program SolidWorks, will produce better aerodynamic properties than the best present day wing system used by the Boeing 737. I tested the AAA Wing System using the Subsonic Open-Circuit Wind Tunnel I built last year, and Computational Fluid Dynamic Software.

Biography

I am a grade 8 student at Unionville Montessori Private School taking a grade 9 curriculum. Each year, I have received "Honours with Distinction", which is given to students with a 90+ average. I have won numerous awards in French, Science and Public Speaking and I am the head programmer for the school's robotics team. This year I was selected by the teachers to become a school Prefect. When I'm older I hope to attend Harvard or MIT. Last year I attended CWSF 2012 in PEI and met so many amazing friends from all over Canada as well as won the Carlson Wagonlit Award. This past year I have been taking engineering and programming courses at the University of Toronto. I have always been passionate about aerospace engineering; this passion inspired me to design and build the AAA Wing System using the CAD program SolidWorks.

Awards

Value

S.M. Blair Family Foundation Award - Junior Sponsor: S.M. Blair Family Foundation	\$500
Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada	\$300
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 800