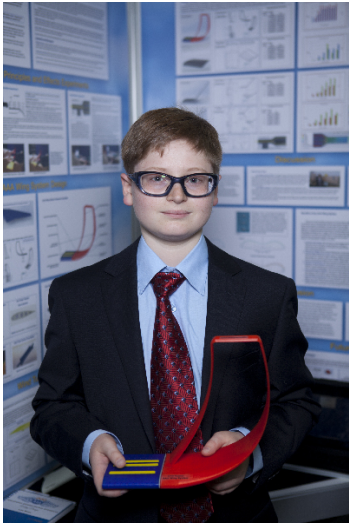


# CWSF 2013 - Lethbridge, Alberta



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

