

CWSF 2011 - Toronto, Ontario



Zorro Li

Studying Canard Configuration under Low Airspeed Conditions and Its Applications

Challenge: Discovery

Category: Senior

Region: Annapolis Valley

City: New Minas, NS

School: Horton High School

Abstract: This project studied the canard wing structure, a unique airplane wing configuration, in order to find factors that affect the minimum stalling speed which is significant in the performance of an aircraft. An ideal design was generated based on the results of the study. Applied to a Boeing 777-200, the optimal configuration was computer tested and the aircraft's minimum stalling speed was significantly lowered.

Biography

My name is Zorro (Zhi) Li, and this is my first time attending the Canada-Wide Science Fair. I have been interested in airplanes since I was three years old and have dreamed to fly an aircraft designed by myself. I was a member of flying club in primary school, and I used to build and fly both rubber band powered and control line aircraft. I also enjoy computer flight simulators. When I'm not working with airplanes, I enjoy playing the violin, which I have been playing for fourteen years. After I graduate I will be attending Carleton University to study aerospace engineering, where I hope to fulfill my dream.

Awards

Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	\$300
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Total	\$2 300