Marc-Antoine Georgiev

Turboréacteur turbocompressé

Challenge: Innovation
Category: Senior
Region: Montérégie
City: St.-Hubert, QC
School: Collège Français Secondaire (Longueuil)

Abstract: The goal of my project was to design and build a fully functional jet engine similar to the ones found on modern aircraft. The engine is based on an automotive turbocharger and uses an electronic fuel injection system controlled using pulse-width modulation. It also features suitable instrumentation to measure various engine and combustion parameters in order to improve its efficiency.

Biography

"The only way to be truly satisfied is to do what you believe is great work. And the only way to do great work is to love what you do". - Steve Jobs. I can assume this quote best describes the reason why I chose to undertake this project. I never did it for the money, nor the fame or prizes. I did it because I simply love doing it, and I guess this should be the same for everyone. My strong passion for aviation and engineering are the only elements that thought me to never give up on my dreams and always work harder on the what I loved the most. Aviation is in my blood and I truly worship it: it has thoroughly changed my life in an upright manner, and hopefully my future work and interest field. I wish to pursue studies in the domain of sciences, more specifically in aerospace and aeronautics engineering. I currently live in Quebec and am confident my province has a bright future in the sector of aviation. It is in my opinion our job to make people believe in themselves and hopefully make them tomorrow's promising leaders !

Awards	Value
Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	$100
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	$2 100