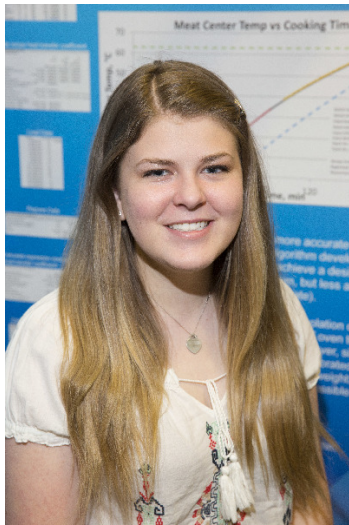


CWSF 2014 - Windsor, Ontario



Zoe Dingeman

Algorithm for Improved Cooking Time and Temperature Estimation

Challenge: Innovation

Category: Senior

Region: Calgary Youth

City: Calgary, AB

School: Webber Academy

Abstract: This project is an algorithm to accurately predict cooking times, or to provide the user with recommendations to change oven temperature to achieve a desired cooking time, based on heat transfer principles and data from early in the cooking cycle.

Biography

My name is Zoe Dingeman and I am a grade 12 student at Webber Academy in Calgary, AB. Next year, I plan on majoring in mechanical engineering. Some of my interests outside of school include rugby, Model United Nations, tutoring, baking, and volunteering with a variety of organizations. I am also the team captain on my FIRST Robotics Competition team. The inspiration for my project came from my love of science, cooking, and problem solving. My future plans for this project include making the algorithm more user friendly through developing a standalone app that can receive data wirelessly, and eventually to implement fuzzy logic.

Awards

Value

Excellence Award - Senior - Bronze Medal Sponsor: Nuclear Waste Management Organization	\$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