DOUGLAS SANTOS

Biosystems Engineer

santoscd@myumanitoba.ca (204) 500-8178

ABOUT ME

I am a novice professional with meaningful experience and sturdy education on engineering principles, biological procedures and agricultural practices. I aspire to become a professional food engineer; optimizing fresh food production, water usage, farming and sustainable agriculture.

HONORS AND AWARDS

- UM Graduate Entrance Scholarship (2021)
- University of Florida Honors Program Cohort (2020)
- ASABE Outstanding Scholar (2020)
- Davis Foundation Scholarship Recipient (2016)
- UWC Maastricht Scholarship Recipient (2014)

CERTIFICATIONS

- MATLAB Fundamentals
- Python Data Structure
- Fundamentals of Project Planning and Management
- GMPs & GLPs
- Agribusiness Innovation
- Agrotechnology Fundamentals

INTEREST

Running Gardening Vegan

EDUCATION

Master of Science in Biosystems Engineering Dec. 2022
University of Manitoba, Canada

Bachelor of Science in Biological Engineering 2016-2020
University of Florida, USA

PROFESIONAL EXPERIENCE

UM Grain Storage Research Lab 2021-Present
Graduate research assistant

- Studies the characterization of pore structure of granular material under storage ecosystem conditions affected by different physical factors, including moisture content, inter-particle interaction, particle size, and dockage distribution using non-destructive x-ray and image analysis.

Puerto Rico Department of Education 2020
Information Technology Instructor

- Organized didactic material based on the discernment of curriculum, delivering lessons to seventy-five high school students via e-learning.
- Conducted IT-skill-gap analysis giving maintenance to hardware equipment and providing staff role-specific training on educational software.

LEADERSHIP POSITIONS

UM Faculty of Agricultural and Food Sciences 2022
Faculty Ambassador

- Performs an integral role in developing and executing projects for the growth of the faculty's undergraduate programs, as well as the fostering of important relationships that the institution has with industry, stakeholders, and alumni.

UM Earth Student Organization 2021
Project Lead

- Conducted bi-weekly meetings with volunteer students engineering future implementations for the progress of an automated growth chamber made from a converted ship container built as a proof of concept for food production in remote and frigid conditions.