



DOUGLAS SANTOS

Biosystems Engineer



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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.