

RANDRIAMIARINTSOA NARINDRA

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EDUCATION

Michigan State University – East Lansing, MI August 2017 – Present

- Bachelor of Science expected 2021 with major in Biosystems Engineering, and a concentration in Food Engineering
- Master of Science expected 2022 in Biosystems Engineering
- Member of the Honors College
- The Mastercard Foundation Scholars Program recipient

Ambohidratrimo High School – Antananarivo, Madagascar October 2012 – August 2015

- Scientific Baccalaureate with high honor distinction | Literary Baccalaureate with honor distinction

EXPERIENCE

Research Assistant in a Food Safety Laboratory-Biosystems Engineering at Michigan State University May 2018-present

- Discuss protocols to inactivate *E. coli* and other pathogens bacteria in meat products, baked food, dates and milk-powder food using different approaches including thermal inactivation
- Worked on *Salmonella* Lethality in Fully-Cooked Bacon and Evaluation of a Non-Pathogenic Surrogate *Enterococcus Faecium* for Validation Purposes
- Collect data such as moisture content, water activity and bacterial counts under different treatment.
- Start microbial cultures, and inoculate food products with different food pathogens

La Société JB Madagascar- Internship at the Research and Development Department May 2019- August 2019

- Identified anomalies of chocolate products such as fat bloom, sugar bloom, surface breaking and melting problems
- Analyzed and experimented the possible factors and scientific mechanisms of quality defects of chocolate
- Provided suggestions to solve the problem using scientific research, research patents and different approaches used by other food companies

Undergraduate Learning Assistant- College of Engineering at Michigan State University August 2018-December 2018

- Facilitate learning in an introduction to engineering design class through in-classroom interaction
- Grade students' assignments and provide feedback

Math Tutoring -College of Engineering and Math Learning Center at Michigan State University August 2018-November 2018

- Tutor Calculus for students applying to the college of engineering and address questions they have about the resources available to them on campus
- Interact with students from different backgrounds

International Academic Orientation Program-Michigan State University August 2018

- Led 20 new undergraduate students for a week of academic orientation by giving them advice about college life in general and by creating a sense of community and belonging

LEADERSHIP

Representative of the International Student Association at the Student Government (ASMSU) at Michigan State University

April 2019- present

- Attend the General Assembly meetings of ASMSU
- Advocate for the changes international students wish to make on campus in order to create a more welcoming and inclusive environment
- Member of the Finance Committee where the financial problems, or aspirations of the organization are mainly discussed before General Assembly

African Student Leadership Association-Michigan State University September 2018-present

- Part of a culturally diverse group that discusses pertinent economic and social problems in Africa and brainstorm ideas about what young people can do to give back to the African continent.

- Attend national and international conferences about leadership and development, such as Model African Union.

VOLUNTEERING

Food Bank- Lansing September 2017-present

- Give a hand to pack food to be distributed to students and to people who are food insecure

Habitat for Humanity-South Carolina March 2018

- Collaborated with a group of volunteers to build a house for a couple whose house was destroyed by hurricanes.

Refugee Development Center- Spartan Day of Service- East Lansing November 2017

- Worked on a team to do gardening and collect vegetables in a center for disadvantaged children.

Aeropartage – Antananarivo Madagascar January 2016 – August 2017

- Helped distribute clothes and books to orphans and students in the countryside
- Assisted in dental projects in the countryside

Peace Corps Madagascar July 2016

- Coached young girls from six provinces in Madagascar with Peace Corps volunteers preparing them with life after high school

SKILLS AND INTERESTS

- Fluent in English, French and Malagasy
- Computer skills: Excel, Word, Power Point, and MATLAB
- Interests: Predictive microbiology, microbial and molecular food safety engineering, food engineering, biotechnology.