RAKOTOZANDRY TAFITASOANIAINA CHRISTIANY

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111 Quad Drive Lafayette College Easton PA Box 8804

EDUCATION

LAFAYETTE COLLEGE

Electrical and Computer Engineering (GPA:3.5)

August 2017-Present

ECOLE SUPERIEURE POLYTECHNIQUE D'ANTANANARIVO (ESPA)

Energy study

March 2015- June 2017

LYCEE ANDOHALO ANTANANARIVO

High school basic knowledge

October 2011-August 2014

ADDITIONAL TRAINING

CAMP EXCEL PROGRAM

• Leadership and Community Service training camp

YOUNG AFRICAN LEADERS INITIATIVE (YALI)

• Online course aiming in understanding climate change

LAFAYETTE INITIATIVE FOR MALAGASY EDUCATION (LIME)

• Exchange program with Lafayette College students with high school in Madagascar

SKILLS

- Programming languages: Python, C, C++, SQL, HTML and CSS
- Database structuration
- Mathematical and Statistical software: MATLAB and Mathematica
- Electric design and circuit analysis

LANGUAGES

• English (Fluent)

French (Fluent)

Malagasy (Fluent)

German (Basic)

PROFESSIONAL EXPERIENCES

Lafavette College

User Service Technician

August 2017-Present

EASTON, PA

- Assisted students and professor in trouble shooting computers, cameras and other electronic devices
- Managed IT equipment such as computers/ printers and projectors in classrooms, library and conference room on Lafayette campus.
- Ensured reparation of printers and new installation computers if necessary
- Managed the license software of each computers of the school with the supervisor

Laboratory for Analysis and Architecture of Systems

February 2017-Mai 2017 TOULOUSE, FRANCE

Intern

- Analyzed the specification of each Uninterruptible Power Supplies (UPS)
- Researched for monitoring card that can track in real time the electrical characteristics
- Analyzed electrical characteristics data measured from the UPS
- Created computer daemons to receive the data from the UPS
- Built and structured a database to collect and to manage the electrical measurement by using the private local server of the company
- Coded a web application to monitor all the UPS of the laboratory.

High Tao

March 2016- July 2016

Energy consumption analyst

ANTANANARIVO, MADAGASCAR

- Analyzed the daily energy consumption of each devices used by the company
- Monitored the monthly energy bills of the company
- Made a projection of the energy cost and consumption of the company based on the data collected
- Looked for company that offers alternative energy source in the market
- Proposed a low energy consumption devices and alternative energy source to reduce the electricity expense of the company

VOLUNTEERING

President of the Communications Committee of Lafayette Initiative for Malagasy Education

- Coordinated weekly meeting with LIME students and professors
- Organized social events with members and guests

Volunteer in Excel Foundation Community Service

Took part in fundraising to share gift to underprivileged children during

Christmas time

Worked with a team to sensitize parents and children to get education in school

PROJECTS

Piezoelectric shoe generator

• Designed a prototype of a shoe that generates electricity from walking using piezo transducers.

Solar tracker generator

• Built and coded a mini solar panel which follows the position of the sun for a maximum energy production efficiency.

Tesla coil design

• Replicated a mini version of the Tesla Coil for an observation of the wireless electricity transfer.

Malagasy version of the Malinux Tele's education game

 Translated and changed the source code of the Malinux Tele's education game from Bambara into Malagasy for a local use in Madagascar

Raspberry Pi Miezaka

• Designed a prototype of a mini-computer made from a Raspberry Pi powered by solar panel for an educational use in Madagascar

Light effect on artifact in Special Collection Lafayette College

• Designed and coded with classmates at Lafayette College a system that allows to archivist of the library to measure the effect of the light on the conserved artifacts

Conception of biodiesel

• Worked on a laboratory project that study the production process of a biodiesel.