Boniface UWIZEYIMANA

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👤 **Github:** https://github.com/Bon100

📍 **Work:** Alexandria (Egypt)

📍 **Home:** Kigali (Rwanda)

ABOUT ME

Passionate about contributing to science and solving real problems facing humanity by being creative, innovative, and always thinking outside the box. I am enthusiastic about computer programming and computer-oriented solutions to problems. I am a believer in hard work in the words of Vince Lombardi *" The man on the top of the mountain didn't fall there".*

EDUCATION AND TRAINING

Master of Science in Electronics and Communication Engineering
Egypt-Japan University of Science and Technology (E-JUST) [17/10/2021 – 30/01/2024]

Address: Alexandria (Egypt)
Website: https://ejust.edu.eg/
Thesis: RESOURCE ALLOCATION FOR 6G HETEROGENEOUS NETWORK

Main contribution:
  • Studying the potential of machine learning to the resource allocation of the 6G networks
  • Efficient resource allocation for the Integrated Aerial and terrestrial networks including user association, power and channel allocations.

Bachelor of Science in Electronics and Telecommunication Engineering
University of Rwanda [01/09/2015 – 08/11/2019]

Address: Kigali (Rwanda)
Website: https://ur.ac.rw/
Final grade: Second Class Upper division
Thesis: GPS-BASED VEHICLE ACCIDENT ALERTING SYSTEM

This project aimed to minimize the risk of death in case a vehicle accident happens with no fast support. By using GPS, GSM, Accerelometer modules and Arduino, we designed a system to send SMS automatically to the nearest hospitals and police stations.

WORK EXPERIENCE

IT engineer
BRAIN WORKS AFRICA [01/02/2019 – 08/11/2020]

City: Kigali
Country: Rwanda
Website: https://www.brain-works.co.jp/

  • Software and mobile application development
  • IT-related research projects
  • Media projects

Electronics and Production Engineer
SAHASRA ELECTRONICS RWANDA PVT LTD [28/07/2018 – 31/01/2019]

City: Kigali
Country: Rwanda

Website: https://www.sahasraelectronics.rw/

- Assembling, Repairing, maintaining and installing LED lights
- Developing manufacturing process
- Testing the LED lights

PROFESSIONAL TRAINING AND WORKSHOPS

KEY PERFORMANCE INDICATORS FOR GOVERNANCE EFFECTIVENESS IN AFRICA COURSE

[08/02/2023 – 09/09/2023]

Offered by National Institute for Governance and Sustainable Development, Egypt

CONFERENCE ATTENDANCE

[19/12/2022 – 20/12/2022]

International Japan-Africa Conference on Electronics, Communications and Computations (JAC-ECC 2022)

Presented a paper entitled: "*Multi-Armed Bandit and Repeated Auction Approaches for User Admission and Channel Allocation in 5G HetNets*"

AWS Certified Cloud Practitioner

[15/09/2022 – 15/12/2022]

Azubi Africa and Amazon Web sevices

Skills covered:

- Introduction to cloud computing
- Amazon web services (Storage services, Networking services, Database services, Security services, ETC)
- Linux operating system

Link: https://www.credly.com/badges/9386ccab-caec-4a91-b9fb-917a4825c42b/linked_in?t=rmvyhh

NI mmWave and Multiple Input and Multiple output (MIMO) training

[11/05/2022 – 14/08/2022]

EJUST and National Instrument (NI)

Skills covered:

- Implementation of NI mmWave for 5G and B5G communication system
- overview of the MTS system and assembling.
- Implementation of Massive MIMO system, assembling the hardware equipment
- Overview of LABVIEW COMMUNICATION SUITE to run mmWave experiment and massive MIMO

AFRICAN CLIMATE AMBASSADORS

[15/05/2022 – 26/05/2022]

Offered by Ain Sharms University, Egypt

EMBEDDED SYSTEM WORKSHOP

[09/2015 – 07/2019]

The University of Rwanda and The Giants Electronics

Skills covered:

- Implementing electronics and embedded system projects
- Real-time monitoring for Aquaculture
- Remote controlling and automatic irrigation system
- Implementation of automatic street light lamp
- ETC.

FIBER OPTIC COMMUNICATION WORKSHOP

[23/07/2019 – 24/07/2019]

University of Rwanda, Liquid Telecom, and KT Rwanda Networks

Skills covered:

- Practical implementation of power budget design for optical communication.
- Designing and implementing fiber optic links, splicing, testing, and measuring power and losses of the link.

IT ENGINEER DEVELOPMENT COURSE

[01/01/2019 – 11/07/2019]

JICA, Kobe Institute of Computing (KIC) and ICT Chamber

Skills covered:

- • The ICT Engineer Development course
- • Internet of Things (IoT) practical skills and projects
- • Leadership skills
- • Tankyu practice and Business model

LANGUAGE SKILLS

Mother tongue(s): **Kinyarwanda**

Other language(s):

English	**French**
LISTENING C1 **READING** C1 **WRITING** C1	**LISTENING** B1 **READING** B1 **WRITING** B1
SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1	**SPOKEN PRODUCTION** B1 **SPOKEN INTERACTION** B1

Chinese	**Arabic**
LISTENING A2 **READING** A2 **WRITING** A1	**LISTENING** A2 **READING** A2 **WRITING** A1
SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** A2	**SPOKEN PRODUCTION** A2 **SPOKEN INTERACTION** A2

DIGITAL SKILLS

Programming languages and software

Python / Web Development HTML 5 CSS PHP JavaScript / C and c++ / MATLAB & MATLAB SIMULINK

Professional skills

Artificial İntelligence / Machine learning / Deep Learning / Solid understanding of Neural Network, Machine Learning and Deeplearning

Artificial Intelligence tools

MATLAB Deep Learning Toolbox / Deep Learning Tensorflow and Keras

ADDITIONAL INFORMATION

Referees

Prof. Maha Elsabrouty: Chairperson of the Electronics and Communication Engineering Department at E-JUST

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Prof. Mohammed Abo-Zahhad: Lecturer at E-JUST, ECE department

Email: mohammed.zahhad@ejust.edu.eg

Phone: (+20) 101 005 5584

Assoc. Prof. Ahmed Abdelmalek: Lecturer at E-JUST, ECE department

Email: ahmed.abdelmalek@ejust.edu.eg

Phone: (+20) 122 225 3522

PUBLICATIONS

Multi-Armed Bandit and Repeated Auction Approaches for User Admission and Channel Allocation in 5G HetNets

[2022]

This work has been published in the 2022 10th International Japan-Africa Conference on Electronics, Communications, and Computations (JAC-ECC).

Link: https://doi.org/10.1109/JAC-ECC56395.2022.10043930