

CHRISPINE O. CHIEDO

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OBJECTIVE:

Understand the design and implementation of Distributed Systems and their modern application areas.

PROFILE:

A technology-savvy academic with very strong analytical and leadership skills. Engaged in technical training, software engineering and consulting. Passionate about computing and engineering education. Keen on imparting technical knowledge and skills through training.

KNOWLEDGE AND SKILLS:

- Extensive knowledge of Linux (Ubuntu) and related UNIX-like systems (as well as Mac OS and Windows).
- More than average comfort with C/C++ and Python programming languages as well as different programming paradigms (object-oriented/structured/functional).
- Familiarity with Agile Software Development methodologies like Scrum.
- Web Application Development using the Django Web Framework.
- Hardware hacking skills using Arduino and Raspberry Pi.
- Ethical hacking/Penetration testing skills using Python and Kali Linux.
- Very strong technical teaching and writing skills.
- Experience in technical/engineering curriculum design and implementation.

EDUCATION:

Moi University, School of Engineering

2007 - 2012

Bachelor of Engineering (B.Eng.), Electrical and Electronics Engineering. Majored in Computing Systems.

RESEARCH INTERESTS:

Distributed Systems, Cloud Computing, Machine Learning, Internet of Things (I.o.T), Smart Grids, Cyber-Security, Embedded Systems, Technical Education.

PROFESSIONAL BODY:

Engineers Board of Kenya (EBK) - *Registered Graduate Engineer*, Reg. Number: **B 9310.**

PROFESSIONAL EXPERIENCE:

Andela Kenya, Talent Development Department

2017 - Present

Software Development Learning Facilitator: Facilitate the software development learning process of Andela Fellows. Examples of software development concepts covered are: API design, Test-Driven Development, HTTP and Web Services, Full-Stack Web Development.

Zetech University, Department of Engineering

2015 - 2017

Instructor for Electrical and Electronics Engineering. Teaching Electrical/Electronic Courses.

Club Patron, Zetech Engineering Club (ZEC). Oversee and direct the Club's activities and Engineering Exhibitions.

Kenya Institute of Professional Studies, ICT & Engineering Department **2013 - 2015**

Head of Department (HOD), ICT and Engineering. Responsible for ensuring the smooth execution of the departmental activities. Oversaw the growth of the number of students in the department by 400%. Initiated the construction of a new Engineering Workshop to accommodate the increased number of students.

Instructor for Electrical Engineering and Computer Science. Taught Electrical Engineering (EE) and Computer Science (CS) courses.

Kenya Meteorological Department, ICT and Engineering Departments **2012**

Intern. Assisted the ICT and Engineering teams in troubleshooting of technical problems within their respective departments on a day to day basis. Learned teamwork skills.

West Kenya Sugar Company Limited

2011

Intern. Interned in the Electrical and Instrumentation Workshops. Also assisted in network administration.

Shamoni Secondary School

2006 - 2007

Mathematics, Physics and Chemistry Teacher. Taught junior high school students the stated subjects.

PROFESSIONAL SERVICE:

Vice Chancellor's Task Force on Engineering Curriculum Review. Zetech University. March-July 2016

KIPS 2014 Graduation Committee. Kenya Institute of Professional Studies. May - October, 2014

PROFESSIONAL AWARDS AND RECOGNITION:

Problem Solving Award: Awarded for excellence in the problem solving category. Zetech University. December 2016.

Extra Mile Award: Awarded for excellence in the extra mile category. Zetech University. December 2016.

TECHNICAL EVENTS ATTENDED:

East Africa Open Data Conference. Strathmore University, Nairobi. 17th ~ 18th, August, 2016.

IEEE Engineering and Business Forum: Hacking Innovative Technology and Engineering Solutions. Strathmore University. Nairobi. 29th and 30th, October, 2015.

City-Next: A Smart City Initiative. Launching of the Smart City Technologies by **Microsoft Kenya**. Norfolk Hotel. Nairobi. 10th December, 2014.

Who's Your Data's Daddy? Is Privacy and Security Online possible in Kenya? Barcamp Nairobi 2014 Edition. iHub, Bishop Magua Center. 30th August, 2014.

COURSES TAUGHT:

DEE 201: Introduction to Computation **2016 - 2017**
Zetech University, Nairobi, Kenya

This course introduces students to the fundamental concepts of computer science and computational thinking through the Python programming language.

DCE 204: Computer Operating Systems **2016 - 2017**
Zetech University, Nairobi, Kenya

Introduction to operating system concepts and implementation paradigms.

DEE 300: Structured Programming **2016 - 2017**
Zetech University, Nairobi, Kenya

Introduction to structured programming concepts using the C programming language.

DEE 205: Microprocessor-based Systems **2015 - 2017**
Zetech University, Nairobi, Kenya

Introduction to assembly language programming and microprocessor-based systems. The unit is taught using the Intel 8085 microprocessor.

DEE 118: Digital Electronics **2015 - 2016**
Zetech University, Nairobi, Kenya

Introduction to the principles of design of digital electronic systems.

Web Design and Development **2013 - 2014**
Kenya Institute of Professional Studies, Nairobi, Kenya

This course taught students how to build dynamic websites using HTML, CSS, JavaScript, PHP, MySQL and the Apache Web Server.

REFEREES:

Available upon request.