

# CHRISPINE O. CHIEDO

Address: P.O. Box 7-50118, Lubao, Kenya.

Cellphone: **+254 (0) 729 506 507**

Email: [chrispinechiedo@gmail.com](mailto:chrispinechiedo@gmail.com)

## **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.

## **EDUCATION:**

**University of Nairobi, School of Computing and Informatics** **2016~**

Master of Science (Msc.) in Distributed Computing Technology.

**Moi University, School of Engineering** **2007 - 2013**

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

**Lela High School** **2002 - 2005**

Kenya Certificate of Secondary Education (K.C.S.E.), *mean grade A- (minus)*. Attained **A's** in Mathematics, Physics, Chemistry and Biology.

**Chombeli Primary School** **1994 - 2001**

Kenya Certificate of Primary Education (K.C.P.E.), *400/500 marks*.

## **RESEARCH INTERESTS:**

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

## **PROFESSIONAL BODY:**

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

## **EXPERIENCE:**

**Zetech University, Department of Engineering** **2015 - Present**

*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.

**SOFTWARE DEVELOPMENT LANGUAGES:**

Python, Go, JavaScript, C/C++, PHP, Java, Rust.

**ACADEMIC 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

**TECHNICAL EVENTS ATTENDED:**

*East Africa Open Data Conference.* Strathmore University, Nairobi. 17<sup>th</sup> ~ 18<sup>th</sup>, August, 2016.

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

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

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

## **COURSES TAUGHT:**

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

Introduction to operating system concepts and implementation paradigms.

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

Introduction to structured programming concepts using the C programming language.

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

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

**DEE 110: Electrical Engineering Principles** **2015 - Present**  
*Zetech University, Nairobi, Kenya*

Introduction to the fundamental principles of electrical engineering. This course teaches students the basic concepts of electrical engineering, giving them a strong foundation for advanced courses.

**DEE 115: Electric Circuit Analysis** **2015 - Present**  
*Zetech University, Nairobi, Kenya*

Introduction to the principles of electric circuit analysis and methods. This course introduces the students to various methods of analyzing both DC and AC circuits.

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

Introduction to the principles of design of digital electronic systems.

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

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

**DEE 201: Engineering Mathematics III** **2015 - 2016**  
*Zetech University, Nairobi, Kenya*

A deep dive into advanced engineering mathematics. Topics taught included: Fourier Series, Numeral Methods and Multiple Integrals.

**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.**