

Dan Ochieng Ojwang

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PROFESSIONAL SUMMARY

Experienced computer professional with a history in different areas of computing and information technology with an MSc. in Electronics and Electrical systems. Vast experience in lecturing electronics, computer architecture, logic, data communication and Signal Processing. Overseen over 200 students successfully complete their final year projects (management systems).

SKILLS

- Technical Skills: Programming, Coding and Troubleshooting
- Problem solving skills
- Critical thinking
- Team work and interpersonal skills
- Communication skills
- Analytical skills

EDUCATION

- **MSC. (Electronic & Electrical Systems)**-ESIEE PARIS in collaboration with the French South African Institute of Technology (FSATI), Republic of South Africa -2011
- **MTECH. (Electrical Engineering(Telecommunication Option))**- Tshwane University of Technology, Republic of South Africa-2011.
 - **Dissertation Title** : Power control for video transmission over wireless mesh networks
 - Graduated with cum laude (distinction)
- **BSC. (Computer Science and Engineering)** - Maseno University, Kenya -2002 graduated with 2nd Class Honours (Upper Division)

PROFESSIONAL AND WORK EXPERIENCE

- **June 2015-Current – Assistant Lecturer**
 - Kenyatta University-School of Engineering, Department of Computing and Information Technology
 - **Duties:**
 - ISO coordinator, CIT department

- Supervision of students' final year projects
 - Lecturing: Electronics, Digital Electronics, Engineering Electronics, Computer Architecture, Management Mathematics, Foundation of Information Technology, Introduction to Internet Technology, Data communication & Networks and Introduction to Logic.
- **July 2015- to date- Departmental Examinations coordinator- Kenyatta University**
 - **Duties:**
 - Coordinating examinations process in the department
 - Ensuring that all examinations are set and processed in time
 - Ensuring proper safe keeping of all examination records within the department
- **Sept 2011 – June 2015 Assistant Lecturer**
 - Kenyatta University-School of Engineering, Department of Electrical and Electronic Engineering
 - **Duties:**
 - Supervision of student projects
 - Lecturing: Digital Signal Processing, Digital Electronics I & II, Computer Networks, Computer Networks, Electrical Engineering I & II, Circuit Theory I and Systems Reliability.
- **March 2012- June 2015- Departmental Examinations coordinator- Kenyatta University**
 - **Duties:**
 - Coordinating examinations process in the department
 - Ensuring that all examinations are set and processed in time
 - Ensuring proper safe keeping of all examination records within the department
- **Feb 2011-September 2011: Kenyatta University**
 - Part time Lecturer in the Department of Electrical and Electronic Engineering. Lecturing: Digital Signal Processing, Digital Electronics I & II,
- **2009: Student Assistant, Department of Electrical Engineering, Tshwane University of Technology.**
 - **Duties:**
 - Drawing laboratory classes
 - Supervising laboratory classes
 - Tutoring
 - Marking of undergraduate exams
- **April 2003-November 2011: Office of the President (Police Department-Planning and Development Branch)**

Rank: Chief Inspector

Duties:

- Monitoring and evaluation of Police projects which included constructions of new police housing units, (Admission and residential blocks) and renovation of existing police stations.
- General police duties.

- **Oct. 2002 – April 2003:** Interworld College for Cultural Exchange and Tourism –Tutor computer department.
 - Courses taught: HTML, Introduction to computers, Visual Basic, PC Maintenance and Basic computer applications

RESEARCH INTERESTS

- Signal processing for computer vision
- MIMO
- Microwave VLSI circuits
- Wireless ad hoc and sensor networks
- Trustworthy computing and networking: QOS, security, safety, predictability etc.

ADDITIONAL RESEARCH PROJECTS

- **Embedded System Project-** Design of a vending machine controller using VHDL
- **Scientific Computing Project-** Self balancing binary search trees
- **High Frequency Systems Project-** Simulation of a 2.4 GHz patch antenna
- **Real Time Signal Processing Project-** Reed Solomon Encoding

CERTIFICATIONS

- Certificate in Beginners French language- Alliance Française, Pretoria RSA, 2009
- Certificate in Research Methodology- Tshwane university of technology, Pretoria RSA, 2008
- Certificate in Leadership Development- Mt. Kenya School of Adventure (Marania Base Camp), 2005

PUBLICATIONS

- **Dan O. Ojwang**, Elmarie Biermann and James O. Oyedapo, “Power Control for Video Transmission over Rural Wireless Mesh Network” in *Proceedings of Southern Africa Telecommunication Networks and Applications Conference 2009 (SATNAC 2009)*, 29th August – 2nd September 2009, Royal Swazi Spa, Swaziland.
- **D.O. Ojwang**, P.O. Adar, J.M. Okech, F.O. Aron and A. Kurien, “Dynamic Power Control for video packets in Rural Wireless Mesh Networks” in *Proceedings of the Annual Strathmore University ICT Conference 2010*, 4th August, Strathmore University, Kenya.
- Power Control for Video Transmission over Wireless Mesh Networks- Masters Dissertation

REFEREES

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