Curriculum Vitae

DUNCAN NAIGENDE

P.O. Box, 26373 Kampala
Cell: +256 772 425641, +256 704 425641
Email: dnaigende@gmail.com, dnaigende@umu.ac.ug

A. PROFESSIONAL PROFILE

- An Education and ICT Professional with 14 years teaching experience at tertiary institutions and 15 years ICT industry experience.
- Effective Communicator and Team Player.
- Consistent interest in research in Computer Networks (Wireless Networks) and Information Security. Recent Research Paper on https://www.reseachgate.net/publication/381311551_Modelling_DDoS_Attacks_in_SDNs_using_Differentiated_Traffic_Distributions
- Other Research papers at http://www.ijcir.org/volume6-number2/article3.pdf.
- Member of the MANET (Mobile Ad Hoc Networks) Research Working Group.
- CISCO Network Academy Instructor since 2015.
- CISCO Certified Network Associate Security 2020
- Global VSAT Forum Certifications, GVF 521, GVF 520. 2010
- Fortinet NSE 1,2,3,4,5 Certifications

B. EDUCATION

- **Fortinet NSE 1, NSE 2, NSE 3, NSE4, NSE5, Certifications**: Fortinet Training Academy
- **CCNA Security,** Open University, United Kingdom
- **CISCO Networking Academy Instructor:** Makerere University Academy Support Centre
- **CISCO Networking Academy Instructor:** Open University United Kingdom.
- **GVF Certifications**, 520; Satcom Fundamentals and 521; Practical Technique for VSAT Installers, 2010: *Global VSAT Forum.*
- **Masters Degree in Data Communications and Software Engineering, Makerere University, Kampala**, 2013. RESEARCH: *An Energy - Efficient Dynamic Source Routing Protocol for Mobile Ad Hoc Networks.*
- **Post Graduate Diploma in Data Communication and Software Engineering,** Makerere University, Kampala, 2009. DISSERTATION: *Routing Protocols in Mobile Ad Hoc Networks.*
  - **CCNP,** Cisco Certified Network Professional: Makerere University Kampala.
- **Bachelor of Science in Education,** Makerere University, Kampala, 1995.

C. ACADEMIC / RESEARCH EXPERIENCE

1. **Lecturer,** Faculty of Science, **Uganda Martyrs University Nkozi**. August 2015 to Date

Students Supervision List:

1. Akech Bernadette: Completed: Title: **An RFID-GSM Location-Based School Child Monitoring System.**
2. Ssemwogerere Christine: Completed: Title**: Intrusion Detection and Prevention Against Multiple Black Hole attacks In Mobile Ad Hoc Networks Using Secure IDSAODV.**
3. Wanjohi Charles: Completed: Title: Framework for Addressing the Challenges of the Uganda E-Waste Management Policy
4. Hasahya Edith: Completed: Title: **Predictive Model for analyzing Mental Health Patients' Data in Sub Saharan Africa**
5. Kulumba Paul: Completed: Title: **A Framework to Guide the Use of Bring Your Own Device (BYOD) to Guarantee Information Security in Business Organisations**
6. Obalim Allan: Completed: Title: **A Deterministic Approach for Preventing and Controlling Botnets in Medium Sized Computer Networks**
7. Jackie Mugabi: Completed: Title: **Modelling Perceived Quality of Expereince in 3G and 4G LTE Broadband networks for developing countries**. .
8. Senteza Henry: Title: **Email Alerts Approach to Controlling and Monitoring Network Traffic**
9. Mbabazi Florence: Completed: Title: **Securing Organisation Assets Using Multiple Intrusion Detection and Prevention Technologies**.
10. Namujehe Eunice: Completed: Title: **Modelling Spectrum sensing in Cognitive Radio Networks in the Presence of Primary and Secondary User Mobility**.
11. Muhammadi Kigula: Completed: Title: **A Framework for Securing B2B (Business to Business) e-Commerce Transactions in Uganda**
12. Paul Mulema: Completed: Title: **A Framework for Improving Three-Way Authentication in Social Media Applications on Android Smart Phones**
13. Hasahya Edith: Completed: Title: **Predictive Model for Analysing Mental Health Patients Data in Sub-Saharan Africa: Case Study: Butabika National Mental Referral Hospital**
14. Abel Ssekibaala**: Modelling DDoS Attacks in SDNs using Differentiated Traffic Distributions**
15. Emmanuel Bwogi: **A Framework to Minimize CyberSecurity Challenges in Safeguarding Network Integrity with IPv4-IPv6 Coexistence.**
16. **2023 to 2024: Names of Successfully Supervised and Graduated Students**
    - Gyaviira Senoga
    - Mugisha Ambrose
    - Musinguzi Innocent
    - Nasasira Rachel
    - Nsaale Abiya
    - Semugooma Tom
    - Sendaula Tonny
    - Veve Morris
17. **2024 to 2025: Names of Successfully Supervised and Graduated Students**
    - Gonzaga Paul
    - Habib Hassan
    - Kamara Lilian

- Nakyonyi Justine
- Okello Denish
- Ssengendo Eddie

Note: This list is for Post Graduate students only. Undergraduate students have not been included.

D. ACADEMIC / TEACHING EXPERIENCE

1. Lecturer, Faculty of Science, **Uganda Martyrs University Nkozi,**. August 2015 to Date
Course Units handled:
(a) Mobile Computing and Networks: Year 2, BSc. IT and BSc Computer Science
(b) ICT Management: Year II, MSc. ICT
(c) ICT Design Selection and Management Year I, MICT
(d) ICT Acquisition and Management: Year I, MSc. ICT
(e) CISCO Networking (1,2,3): Year I, II, III, BSc. IT and BSc. Computer Science
(f) Data Communications and Networks: Year II, BSc. IT
(g) Advanced Enterprise Network Design and Management: Year II, MIS
(h) Computer Architecture: Year I, BSc. IT and BSc. Computer Science
(i) ICT Teaching Methods I and II: Year II, III BSc. Education
(j) Telecommunication Systems: Year I, MSc. IS
(k) Network Forensics Year I, MCF

Roles:
- Organise and conduct lectures in Enterprise Network Design and Management to Year II students of Master of Information Systems.
- Organise and conduct lectures in Data Communications and Computer Networks to Year II students for Bachelor of Information Technology.
- Organise and conduct lectures in ICT Management to Year II students for Masters of ICT
- Organise and conduct lectures in ICT Teaching Methods to Year II and Year III students for Bachelor of Science with Education.
- Organise and conduct lectures in ICT Acquisition and Management to Year I students for Masters of ICT Policy.
- Organise and conduct lectures in Computer Architecture to Year I students for Bachelor of IT and Bachelor of Computer Science
- Organise and conduct lectures in Mobile Computing and Networks to Year II students for Bachelor of IT and Computer Science.
- Prepare, conduct and guide students through practical sessions in computer networks
- Supervise undergraduate and postgraduate students undertaking research.
- Conduct research in computer networks and disseminate the research information.
- Prepare and conduct tests and exams and mark their resultant scripts.
- Present results of the academic evaluation to the coordinator Faculty of Science and Technology.
- Prepare and assess student's course work, assignments, and other academic evaluation material.
- Offer consultancy services to students as and when required.
- Attend all faculty and departmental meetings as and when called upon.

2. **Part-time Lecturer,** Department of Information Technology, Faculty of Basic Sciences and IT, **Ndejje University**, August 2013 to Date.

Course Units handled:

(a) Information Systems Security: Year 2, MIS.

(b) Data Communications and Networks: Year I, MIS

Roles:

- Organise and conduct lectures in Information Systems Security to Year 2 Master of Information Systems.
- Organise and conduct lectures in Data Communications and Networks to Year I Master of Information Systems.
- Organise or participate in organizing academic and/or research seminars.
- Prepare and conduct tests and exams and mark their resultant scripts.
- Present results of the academic evaluation to the Heads of Department Information Technology.
- Prepare and assess student's course work, assignments, and other academic evaluation material.

3. **Part-time Lecturer,** Department of Computer Science, Faculty of Science, **Kyambogo University**, August 2012 to July 2015.

Course Units handled:

(c) Computer Graphics: Year 3, BSc. IT.

(d) Introduction to Computing: Year I, BSc. IT

Roles:

- Organise and conduct lectures in Computer Graphics to Year III Bachelor of Computing and Information Technology. Class sizes are averaging 80 students.
- Organise and conduct lectures in Computing to Year I Bachelor of Information Technology Physics. Class size averages 50 students.
- Organise or participate in organizing academic and/or research seminars.
- Prepare and conduct tests and exams and mark their resultant scripts.
- Present results of the academic evaluation to the Heads of Department Computer Science.
- Prepare and assess student's course work, assignments, and other academic evaluation material

D. PROFESSIONAL EXPERIENCE

Teaching

- Ability to maintain high standards of student achievement, discipline and academic development.
- Competent and up to date with curriculum and industry developments in Information and Communication Technologies
- Profound knowledge of Data Communication Networks at both academic and industry levels

Management

- Taking responsibility for the quality of lecturing and/or teaching done and to make any necessary changes that can improve or maintain standards
- Effectively managing time to ensure that targets are met and plans are efficiently completed.

- Providing guidance and feedback to students to boost their skills and knowledge base.
- Conducting academic research in order to enhance reputation of the academic institution.
- Good at guidance and counseling. A tendency to always listen to others before making judgements.
- Steering Technical Support team towards achievement of customer demands and needs.

E. KEY COMPETENCIES AND SKILLS

- ICT Skills: Proficiency in configuring, maintaining and troubleshooting computer networks.
- Research in ICT with emphasis on Wireless Networks: A Paper on Energy in Mobile Ad Hoc Networks in the International Journal of Computing and ICT Research (IJCIR).
- Administration: High sense of judgment while dealing with students. Fast to visualize, understand and appreciate student's weak and strong points.
- People Management skills of about 10 members of ICT Technical Support for over 10 years.

F. PERSONAL VALUES

- Open and honest in all dealings. Reliable and dependable. Decisive and result oriented.
- Excellent organisational and leadership skills.
- Creative and patient problem solver.
- Team player, technically competent and aware.
- Excellent inter-personal and communication skills.
- Sound planning and organisational capabilities. Persistent to achieve aims and objectives.
- Flexible to take advantage of change, works to meet deadlines.
- Can quickly establish credibility and exhibit a high level of output with minimal supervision

G. LANGUAGES SPOKEN

English: Very Fluent

Swahili: Fluent

Arabic: Fair

Luganda: Very Fluent

Lusoga: Very Fluent

H. HOBBIES

- Watching and playing Soccer
- Regular physical exercise regime through home cores and team games
- Travelling.
- Attending social gatherings, religious functions and fostering inter-personal relations.

I. PROFESSIONAL REFEREES

- **Dr. Paul Birevu Muyinda**

  Dean,
  School of Distance and Lifelong Learning,
  College of Education and External Studies,
  Makerere University
  Telephone: +256 772 426 919
  Email: mpbirevu@cees.mak.ac.ug

- **Dr. Godfrey Odongtoo**

  Head of Department,
  Computer Science,
  Faculty of Science,
  Busitema University
  Telephone: +256 772385722
  Email: gondogtoo@busitema.ac.ug.

- **Mr. Mwesige Ibrahim**

  Manager, Technical Operations
  Technical Department,
  Echo International, Uganda
  Telephone: +256 772 625 583, +256 759 751 050
  Email: ibrahim.mwesige@echouganda.co.ug