


Alupe University College Staff Profile

1. Name:	<p>Type your Name here :</p> <ul style="list-style-type: none"> • Anthony Luvanda, • Doctor of Philosophy in information Technology Your title i.e. • Lecturer • School of science, Physics and Computer Science Department
2. Passport photo:	<p>Place your Passport photo here:</p> <ul style="list-style-type: none"> • Good quality recent photo with a white background 
4. Biography:	<p>Type your Biography here (50-100 words):</p> <ul style="list-style-type: none"> • Has been a lecturer at the School of Science department of Physics and Computer Science at Alupe University College where he was the head of department between 2017 and 2019. Prior to that was an assistant lecture then lecturer from 2006 to 2016 where he held various administrative position chief among them as the associate chair IT department at JKUAT westlands campus and later as the Director JKUAT Kigali campus.
5. Academic Qualifications:	<p>Type your Academic Qualifications here:</p> <ul style="list-style-type: none"> • 2012 – 2015 PhD in Information Technology.: Title of Thesis: <i>A secure framework for defending mobile transactions from man-in-the-middle attacks</i> Jomo Kenyatta University Of Agriculture and Technology • 2002 – 2004 MSc. Computer Based Information System at Sunderland University (U.K) • 1995 – 1999 B.Sc. International Business Administration (Minor: Management Information Systems) at United States International University - Africa (USIU-A).
6. Research Interests:	<p>Type your Research Interests here:</p> <ul style="list-style-type: none"> • Overview – brief summary of your areas of research interests and achievements,

	<p>computer security is mentioned, what first comes to most minds and rightly so is cyber security. This mentality may be partly attributed to the numerous reports on the huge financial losses attributed to cybercrime. For example a 2018 report by the Center for Strategic and International Studies (CSIS) finds that approximately \$600 billion, which translates to almost 1% of the global GDP, is lost to cybercrime yearly. The report jointly made in partnership with McAfee further notes that the aforementioned figure is an increase of \$145 Billion compared to a similar study conducted in 2014. Unfortunately most organizations and individuals focus their energy on ransomware whenever cybersecurity concerns come about.</p> <p>From a research perspective I would be more interested in looking at other aspect of cyber security, other than ransomware, that do not only seem to be emerging but are also becoming a rapid universal occurrence. These are namely</p> <ol style="list-style-type: none"> i. Geopolitical risks associated with Cyber security ii. Cryptojacking/cryptomining iii. Attacks on Internet of things (IoT) devices iv. Vulnerability management of mobile devices in relation to mobile malware v. Cross-site scripting <p>Given the fact that implementation of mitigating measures to counter cyber security risks requires a huge amount of resources/manpower. I am greatly interested in employing Artificial Intelligence through machine Learning and deep Learning in proposing mitigating measures in relation to the aforementioned risks associated with Cyber security.</p> <ul style="list-style-type: none"> • Title of Main Research Projects –indicate if they are funded by whom and /or collaborative with whom, etc. <ol style="list-style-type: none"> (i) “the use of machine learning in enhancing maize and beans crop husbandry in rural Kenya” {not funded} (ii) Assessment of the causes and effects of packet loss in Wireless Sensor Networks {Not Funded} (iii) Use of Bayesian network to asses’ security requirements of mobile banking transactions
<p>7. Publications:</p>	<p><i>Type your Publications here:</i></p> <ol style="list-style-type: none"> i. Identifying Threats Associated With Man-In-The-Middle Attacks during Communication between a Mobile Device and the Back End Server in Mobile Banking Applications. OSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661, p-ISSN: 2278-8727Volume 16, Issue 2, Ver. IX (Mar-Apr. 2014), PP 35-42 ii. Quasi Algorithm Based Model for Intelligent Zoonotic livestock Disease diagnosis. International journal of Mechatronics, electrical and Computer Technology Vol. 4(12), Jul, 2014, pp. 1021-1040, ISSN: 2305-0543 iii. Lack of awareness by end users on security issues affecting mobile banking: a case study of Kenyan mobile phone end users. International Institute for Science, Technology and Education (IISTE) Journal of Information

	<p>Engineering and Applications, ISSN (Paper)2224-5782 ISSN (Online)2225-0506.*</p> <p>iv. A survey of risk factors in the strategic planning process of parastatals in Kenya. European Journal of Business and Innovation Research ,Vol.2, No.3, pp. 51-67, June 2014 Published by European Centre for Research Training and Development UK (www.ea-journals.org)</p> <p>v. Impersonation Challenges Associated With E-Assessment of University Students. Journal of Information Engineering and Applications ISSN 2224-5782 (print) ISSN 2225-0506 Vol.4, No.7, 2014*</p> <p>vi. Proposed Framework for Securing Mobile Banking Applications from Man in the Middle Attacks. Journal of Information Engineering and Applications, ISSN 2224-5782 (print) ISSN 2225-0506 (online) Vol.4, No.12, 2014*</p> <p>vii. Similarity Image Retrieval using Enhanced Color Histogram Based on Support Vector Machine. International Journal of Innovative Science, Engineering & Technology, ISSN 2348 – 7968 Vol. 2 Issue 10, 2015*</p> <p>viii. Securing Online Banking Services against Man in the Middle Attacks by use of two Factor Authentication. International Journal of Innovative Science, Engineering & Technology, Vol. 3 Issue 2, February 2016.*</p> <p style="text-align: center;">○</p>
<p>8. Classes you teach:</p>	<p><i>Type the Classes you teach here:</i></p> <ul style="list-style-type: none"> • Software Engineering • Intermediate Hyper Text Mark-up Language • Artificial Intelligence • Data Communication and Computer Networks • Computer Science Project I
<p>9. Other relevant links:</p>	<p><i>Type any other relevant links here :</i></p> <ul style="list-style-type: none"> • Google scholar ID: Anthony Luvanda
<p>10. Official Contact Details:</p>	<p><i>Type your Official Contact Details here:</i></p> <ul style="list-style-type: none"> • Email: The University has not provided me with an official email address • Telephone number(s) The University has not provided me with an official telephone number • Social Media details: twitter, Facebook, LinkedIn Ids: Anthony Luvanda