

# KASAGGA USAMA

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## 1. EDUCATION

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### ACADEMIC QUALIFICATION

**Ph.D in Information Technology Management – Candidate** To date

Universiti Sultan Azlan Shah (USAS) – Malaysia

**Master of Science in Technical Education with Computer Science & Engineering (CSE)**

**Specialization** October 2012

Islamic University of Technology, Gazipur (IUT, OIC), Bangladesh.

*Project title:* “ICT Competence of TVET Trainee-Teachers: A Case Study in Islamic University of Technology.”

*Supervisor:* Associate Professor. Dr. Faruque A. Haolader

**Postgraduate Diploma in Management and Teaching At Higher Education** October 2015

Islamic University In Uganda, Kampala Campus (IUIU).

**Bachelor of Science in Computer Science (B.Sc.Cs)** October 2009

Islamic University In Uganda, Mbale (IUIU, OIC).

*Final year project:* “An Enterprise Resource Planning System for a Higher Institution of Learning: A case study of Mbale Hamdan Girls School”

**Uganda Advanced Certificate of Education (A-Level)** 2004-2005

Lugazi Mixed Secondary School, Lugazi(Uganda)

*Subjects:* Physics, Economics, Mathematics, Art, General Paper

**Uganda Certificate of Education (O-Level)** 2000-2003

Naggalama Islamic Institute, Naggalama (Uganda)

*Subjects:* Physics, Chemistry, Biology, Mathematics, Geography, History, Arabic Language, Islamic Religious Education, English Language.

### PROFESSIONAL QUALIFICATION

**Basic Level 3D Modelling & 3D Printing Training – Certificate** 2019  
Turkish Cooperation & Coordination Agency (TIKA)

**PC Hardware & Software (IT Essentials) – Certificate** 2015  
Makerere University, College of Computing & IS (CoCIS)

**Project planning and Management** held at Islamic University In Uganda – Kampala Campus from 16 to 18 December 2016.

**Software Testing and Quality Assurance: Current Trends with Practical Issues** held at Islamic University of Technology from 03<sup>rd</sup> – 06/12/11

## 2. EMPLOYMENT EXPERIENCE

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- Academic Registrar** Oct 2025 – To date  
 Universal Technology And Management University (UTAMU)  
 P.O Box 133243, Kampala (Uganda, East Africa)
- Lecturer** July 2013 – To date  
 Computer Science, Faculty of Science  
 Islamic University In Uganda (IUIU)  
 P.O Box 7689, Kampala Campus (Uganda, East Africa)  
*Teaching and Supervision of undergraduate programmes in the computer science and IT department.*
- Academic Registrar** July 2023 – Jan 2025  
 Equator University of Science & Technology  
 P.O Box 133243, Kampala (Uganda, East Africa)
- Acting Vice Chancellor** *Multiple terms in 2024*  
 Equator University of Science & Technology  
 Responsibilities:
- *Represented the Vice Chancellor during official travels and periods of absence.*
  - *Ensured smooth operations across academic, administrative, and financial domains.*
  - *Key activities included:*
    - *Harmonizing teaching timetables.*
    - *Supervising staff and student activities.*
    - *Overseeing student recruitment and admissions processes.*
- Acting Academic Registrar** (Effective: October 2022)  
 Equator University of Science & Technology  
 P.O Box 133243, Kampala (Uganda, East Africa)
- *Took on additional responsibilities in admissions, registration, and graduation processes.*
  - *Ensured compliance with university standards and policies for all academic activities.*
  - *Developed and maintained efficient systems for student data and record-keeping.*
  - *Supported decision-making at the management level and contributed to ERP student data initiatives.*
- Assistant Academic Registrar** (Effective: March 2022)  
 Equator University of Science & Technology  
 P.O Box 133243, Kampala (Uganda, East Africa)
- *Assisted in handling university-wide admissions and enrollment processes.*
  - *Supported the Academic Registrar in administrative functions and policy execution.*
  - *Contributed to the improvement of internal workflows and academic standards.*
- Temporary Lecturer Appointment** (Effective: March 2022)  
 Equator University of Science & Technology  
 P.O Box 133243, Kampala (Uganda, East Africa)
- *Lectured and mentored students in Information Technology.*
  - *Delivered specialized courses focusing on practical and theoretical aspects of IT.*
  - *Supervised final-year projects and research work for undergraduate students.*
- Dean/Lecturer** July 2018 – 2022  
 Computer Science, Faculty of Science

Islamic Call University College (ICUC)

P.O Box 72568, Kampala (Uganda, East Africa)  
*Teaching and Supervision of undergraduate programmes in the computer science and IT department*

**Head Quality Assurance**

July 2019 – Feb 2022

Computer Science, Faculty of Science  
Islamic Call University College (ICUC)  
P.O Box 72568, Kampala (Uganda, East Africa)

*Responsible for academic quality, standards and best practices at the University.*

**Faculty Coordinator / Head Faculty**

July 2014 – Feb 2022

Computer Science, Faculty of Science  
Islamic University In Uganda (IUIU)  
P.O Box 7689, Kampala Campus (Uganda, East Africa)

*Time tabling staffs, Coordination and Supervision of teaching, allocation of research project and internship supervision, counselling both students and staffs.*

**Lecturer**

July 2013 – To date

Computer Science, Faculty of Science  
Islamic University In Uganda (IUIU)  
P.O Box 7689, Kampala Campus (Uganda, East Africa)

*Teaching and Supervision of undergraduate programmes in the computer science and IT department.*

**Part-time Lecturer**

August 2018 – 2022

Computer Science, Faculty of Science  
Al Musfata Islamic College (AIC)  
P.O Box 26175, Kampala (Uganda, East Africa)

*Teaching and Supervision of undergraduate programmes in the IT department*

**Part-time Lecturer**

July 2013 – 2018

Computer Science, Faculty of Science  
Islamic University In Uganda (IUIU)  
P.O Box 7724, Female Campus (Uganda, East Africa)

*Teaching and Supervision of undergraduate programmes in the computer science and IT department*

**Part-time Lecturer**

July 2013 – 2014

Computer Science, Faculty of Science  
Kampala University (KU)  
P.O Box 25454, Kampala Campus (Uganda, East Africa)

*Teaching and Supervision of graduate programmes in the IT department*

**Senior Web-Developer**

July 2013 – December 2017

Newline Technologies Limited (NTL)  
E-Tower, Kampala Road, Level 5, Suit E04  
Kampala, Uganda (East Africa)  
[www.ntl.co.ug](http://www.ntl.co.ug)

**Feature Writer (Part-time)**

January 2010 – December 2012

### 3. LEADERSHIP AND ADMINISTRATION EXPERIENCE

<p><b>Academic Registrar</b> Equator University of Science &amp; Technology</p> <p><i>Responsibilities:</i> Handling student issues at department (module registration, assignments, programme related problems, student-instructor conflict management, disciplinary cases), preparation of teaching timetables and examination schedules, and marketing the programs.</p>	2022- Jan 2025
<p><b>Faculty Coordinator</b> Faculty of Science, Islamic University In Uganda (IUIU) P.O Box 7689, Kampala Campus (Uganda, East Africa)</p> <p><i>Responsibilities:</i> Handling student issues at faculty level (module registration, assignments, programme related problems, student-instructor conflict management, disciplinary cases), course allocations to instructors, and representative of quality assurance committee at faculty level.</p>	2014- 2022
<p><b>CEO – RAZAQA Charitable Organisation</b></p>	Present
<p><b>Head ODEL SUPPORT TEAM</b> Islamic University In Uganda (IUIU) P.O Box 7689, Kampala Campus (Uganda, East Africa)</p> <p><i>Responsibilities:</i> Operationalize Odel teaching Model, Train Lecturers, Supervise, support online classes on a daily basis, respond to all technical issues from students and lecturers.</p>	June – August 2021
<p><b>Parton, Lens Media</b> Islamic University In Uganda (IUIU), Uganda</p>	2017- Present
<p><b>Campus representative, Zakat IUIU</b> Islamic University In Uganda (IUIU), Uganda</p>	2018 - Present

### 4. Committee Roles and Responsibilities

At Equator University of Science & Technology

In my capacity as an academic and administrative leader, I have contributed significantly to the governance and operational success of various university committees. My roles include:

- **Secretary, Senate:** Coordinated and documented all deliberations, ensured proper record-keeping, and facilitated the implementation of Senate resolutions.
- **Member, University Management Committee:** Participated in strategic decision-making processes that influenced institutional policies and growth.
- **Chairperson, Examination Committee:** Oversaw examination planning, administration, and integrity, ensuring compliance with academic standards and regulations.
- **Member, Quality Assurance Committee:** Contributed to the development and implementation of quality assurance frameworks to uphold academic excellence.
- **Member, Internal Appointment Committee:** Provided objective input in the recruitment and appointment of qualified staff, ensuring transparency and fairness.
- **Member, Students' Disciplinary Committee:** Played a key role in adjudicating disciplinary cases and promoting a fair and supportive academic environment.

- **Chairperson, Housing Committee:** <sup>KASAGGA USAMA, CURRICULUM VITAE (as at Jan 2025)</sup> Supervised and facilitated decisions related to student and staff accommodation, addressing challenges to improve living conditions on campus.
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## 5. HONORS, AWARDS AND PROFESSIONAL MEMBERSHIPS

### 2 Year Full Scholarship (graduate Studies)

2010

Awarded by the Organization of Islamic Cooperation (OIC)

Scholarship was awarded on merit-basis

### Best Academic Staff

2014/2015

IUIU – Kampala Campus

### Member

September 2017-Present

Pearson

### NCHE – 13<sup>th</sup> Annual Higher Education Exhibition

22<sup>nd</sup> – 24<sup>th</sup> Sep 2022

2<sup>nd</sup> Runner up Exhibitor Award

Equator University of Science & Technology

Team Exhibitor

## 5. PRACTICAL SKILLS

### Programming/Scripting Languages

C, Java, JavaScript, Solidworks 3D printing, Octave, PHP, and SQL.

### Integrated Development Environments (IDEs) / Software Tools

~~MySQL, Dev C<sup>++</sup>, Notepad<sup>++</sup>, NetBeans, Dreamweaver, Visual Studio, Adobe Photoshop, Adobe~~

After Effect, Final Cut Pro (FCP), statistical package for social sciences (SPSS) and Visual 3D (iclone).

## 6. RESEARCH, INNOVATIONS AND TEACHING EXPERIENCE

### 6.1 RESEARCH & INNOVATIONS

#### INTERESTS

Big Data Analytics, Internet of Things, Database-Driven Systems, Artificial Intelligence (Machine Learning/Data Mining, Fuzzy Systems), Computational Biomechanics, 3D Motion Modelling, Human-Computer Interaction, Intelligent Software Designs, and Web-Systems Development.

## **EXPERIENCE**

### **Current Research Responsibility**

Nov 2018-to- 2022

**Principal Investigator**, Motion Analysis Research Lab (MARL)  
Islamic University in Uganda-Kampala Campus (IUIU-KC)  
P.O Box 7689, Kibuli, Kampala (Uganda) - <https://marlworks.net/>

MARL is a recently established research Lab that aims to leverage sensing technologies in the design and development of state-of-the-art Intelligent IoT Applications.

### **MARL PROJECTS**

2019 – to- Date

I have been directly involved in the following innovative projects;-

- i. Automated Hand Washing Dispenser (a COVID-19 Response Solution)
- ii. A Wearable Framework for monitoring children in Outdoor Environments
- iii. Wearable Framework for Monitoring the Elderly in Indoor Environments
- iv. A Real-Time Sensor Based Pothole Mapping and Visualization System
- v. A Wearable Sensor-based safety Tool for the Deaf and Blind
- vi. A Sensor-based autonomous floor cleaning Assistant
- vii. A fingerprint-enabled database-driven access control system
- viii. Autonomous Greenhouse with Real-Time Visualization
- ix. Sensor-Based Framework for Water Overflow Control and Leakage Detection

### **JOURNAL PAPER**

Sekalema Hamza, Umar Yahya, Abdal Kasule, **Kasagga Usama**, Pembe Fahad, **Characterizing Peak-Time Traffic Jam Incidents in Kampala Using Exploratory Data Analysis**, *Journal of Transportation Technologies*, Vol. 13, No. 1, pp. 1–16, January 31, 2023.  
**DOI: 10.4236/jtts.2023.131004**

A Solar-Powered Semi-Autonomous Greenhouse Management Framework  
<https://ieeexplore.ieee.org/document/9543401> - 23-27 Aug. 2021

Usama Kasagga & Sawuya Nakijoba (2020). **Effect of Romantic Relationship on Undergraduate Students' Academic Performance: A Case Study of Islamic University in Uganda**. *IUMJ*, vol. 7 (2), 2020

Kasagga, U. Faruque A. (2012). **ICT Competence Of TVET Trainee-Teachers: A Case Study In Islamic University Of Technology**. Vol.1 - Issue 9 (November - 2012). E-ISSN: 2278-0181

### **BOOK**

Kasagga, U. Faruque A. (2012). *ICT Competence: Assessment of Competence of TVET Trainee Teachers in the Field of ICT*. Saarbrücken, Germany: LAP LAMBERT Academic Publishing.  
(ISBN: 978-3-659-25698-1)

### **CONFERENCE ATTENDED:**

- Corporate Seminar on Islamic Banking & Finance held on 29<sup>th</sup> /08/2017 at Hotel Africana – Kampala.
- Resource person – Technology and Society held on 17<sup>th</sup> – 19<sup>th</sup> /08/2017 at IUIU Kampala Campus.
- 3<sup>rd</sup> National Conference on Communication held at Ndejje University, Uganda on 29<sup>th</sup> and

- ✓ 4<sup>th</sup> National Conference on Communication and Information Security (NCCIS 2012) held at Daffodil International University, Bangladesh on 31<sup>st</sup>/03/2012.
- ✓ 14<sup>th</sup> International Conference on Computer and Information Technology (ICCIT), 2011 held at American International University of Bangladesh from 22<sup>nd</sup> -24<sup>th</sup> /12/11

### **WORKSHOP ATTENDED:**

- ✓ Customer Care Service Training Workshop at Islamic University In Uganda - Kampala Campus on 7<sup>th</sup>/January/2020
- ✓ Workshop on Project planning and Management held at Islamic University In Uganda – Kampala Campus from 16 to 18 December 2016.
- ✓ Workshop on Software Testing and Quality Assurance: Current Trends with Practical Issues held at Islamic University of Technology from 03<sup>rd</sup> – 06/12/11
- ✓ International Workshop on Competency Based in Technical and Vocational Education and Training for the OIC member countries held at Islamic University of Technology from 27<sup>th</sup> – 30<sup>th</sup>/11/11

### **SHORT COURSES ATTENDED:**

- ✓ A Short course on Recent Developments in Wireless Communication held at Islamic University of Technology from 10<sup>th</sup> – 14<sup>th</sup>/12/11

## **6.2 TEACHING**

I have taught, tutored and examined several undergraduate papers both at the Islamic University in Uganda (IUIU, Uganda) and other Universities in Uganda in the period 2013-Present. They include: Multimedia Designing (using Adobe Suite), Computer care and repair, IT project planning, Technopreneurship, Website Programming (using PHP, JSP, HTML5, and CSS), Database Programming (using MySQL), Software Engineering, Computer Applications, Advanced Website Programming, Research Methods, Concepts of Cloud Computing and Science of Multimedia.

## **6.3 SUPERVISION**

I have so-far supervised more than sixty (60) final year undergraduate projects in the areas of: Web-based Applications Development, Human Computer Interaction, Advanced Human Motion Analysis, Mobile Computing, Software Engineering, Intelligent Systems, E-Commerce, and Internet of Things (IoT).

## **7. PERSONAL INFORMATION**

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**Full Name:** Kasagga Usama      **Date of Birth:** 2<sup>nd</sup> -07-1985.      **Nationality:** Uganda  
**Current Residence:** Uganda      **Emails:** kasagga2011@gmail.com  
**Twitter:** KasaggaU      **Cell:** +256782220302 | +256703712913  
**YouTube Channel:** Eng. Kasagga Usama

## 8. REFEREES

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### **Dr. Kasule Taha, Ph.D**

Director, Islamic University in Uganda

Kampala Campus, Kampala, Uganda

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

Contact: +256772 493399

### **Dr. Umar Yahya, Ph.D**

Dean, Faculty of Science | Head, Motion Analysis Research Lab (MARL)

Islamic University in Uganda-Kampala Campus (IUIU-KC)

**Emails:** umar.yahya@ieee.org | [umar@iuiu.ac.ug](mailto:umar@iuiu.ac.ug)

Contact: +256700 836936

### **Dr. Kasule Abdal, Ph.D**

Head, Motion Analysis Research Lab (MARL) | Senior Lecturer, Faculty of Science

Islamic University in Uganda-Kampala Campus (IUIU-KC)

**Emails:** abdal78@gmail.com | [abdal@iuiu.ac.ug](mailto:abdal@iuiu.ac.ug)

Contact: +256772640578, +256751640578

### **Mr. Sumare Muhammad**

Deputy Academic Registrar, Islamic University in Uganda

Kampala Campus, Kampala, Uganda

*Email:* [sumare@iuiu.ac.ug](mailto:sumare@iuiu.ac.ug) | [sumare100@gmail.com](mailto:sumare100@gmail.com)

Contact: +256702 882110

### **Dr. Ssebagala Steven**

**HOD Anatomy / Chair Masaka Regional Referral Hospital**

Equator University of Science & Technology

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Contact: +256752615387