Plot 1945, Kamuli A Zone, Kireka Ward,
Namugongo Division, Wakiso District.
August 7, 2025.

Director, HR & Administration,
Uganda Technology and Management University (UTAMU),
P. O. Box 73307, Kampala.

Dear Ms. Flora Rukundo Ddamba,

RE: Expression of Interest in Lecturing Position – AI and Data Science

Following Prof. Venansius Baryamureeba's kind invitation, I am pleased to express my interest in supporting UTAMU's academic and research initiatives, particularly in the upcoming M.Sc. in Artificial Intelligence and Data Science, as well as in other areas within Computer Science under the School of Technology, Computing, and Engineering.

I hold a Ph.D. in Electrical Engineering (Artificial Intelligence specialization) and bring over five years of combined teaching, research, and technical experience across data science, machine learning, deep learning, fuzzy logic, and intelligent systems. My doctoral research focused on developing neuro-fuzzy-based AI methods for aquaculture automation, a highly interdisciplinary project combining AI, IoT, and computer vision for real-world applications in food security and environmental monitoring.

In addition to academic instruction, I have contributed to curriculum development, supervised student research, and participated in collaborative AI research. I am enthusiastic about contributing to UTAMU through teaching, research, program development, and mentorship.

Please find attached my CV and academic documents for your consideration. I am available at your convenience for any further discussion.

Yours sincerely,

Simon Peter Khabusi, Ph.D.
Phone: 0771548122/0757245336
Email: simonkhabusi@gmail.com

CURRICULUM VITAE

Name: **Simon Peter Khabusi, Ph.D.**

Date of Birth: 24th April, 1992

Gender: Male

Marital Status: Married

Nationality: Ugandan

ORCiD: https://orcid.org/0009-0002-5203-9647

Contact: Plot 1945, Kamuli A, Kireka Ward, Namugongo Division, Wakiso District.

Mobile: +256771548122 or +256757245336

Email: simonkhabusi@gmail.com

EDUCATION	
2021-2025	**NATIONAL TAIPEI UNIVERSITY OF TECHNOLOGY (NTUT)** Taipei, Taiwan Ph.D. in Electrical Engineering Advisor: Prof. Yo-Ping Huang, Ph.D. Artificial Intelligence, Machine Learning, Computer Vision, Fuzzy Systems *National Science and Technology Council (NSTC) Research Fellowship* *Outstanding International Graduate Student Scholarship Award* *AU Optronics Research Assistantship*
2018-2025	**DELHI TECHNOLOGICAL UNIVERSITY (DTU)** New Delhi, India Master of Technology in Computer Science & Engineering Advisor: Prof. Rajni Jindal, Ph.D. Database Management Systems, Machine Learning, Wireless and Mobile Communication, Computer Networks and Information Security *Indian Council for Cultural Relations African Scholarship Award*
2012-2016	**BUSITEMA UNIVERSITY (BU)** Tororo, Uganda *Bachelor of Computer Engineering* *Advisor: Alunyu Andrew Egwar, Ph.D.* *Embedded Systems, Database Management Systems, Wireless and Mobile Communication, Computer Networks and Information Security* **Government of Uganda National Merit Scholarship**
TECHNICAL SKILLS	
	• **Artificial Intelligence:** Heuristic search, hill climbing, production systems, fuzzy systems, neuro-fuzzy systems. • **Programming Languages:** Python, C++, C, MATLAB, PHP, Python-Flask, MySQL. • **Computer Science Theory:** Set Theory, Probability Theory, Statistics, Linear Algebra, Discrete Mathematics, Digital Logic, Data Structures and Algorithms. • **Mathematical Optimization:** Bayesian Optimization, Linear Programming, Network Flow Theory, Simulated Annealing, Constraint Formulation, Sensitivity Analysis, Gaussian and Poisson Distributions. • **Machine Learning:** *Supervised* - Linear Regression, Logistic Regression, Decision Trees, Random Forests, KNNs, SVMs, Gaussian Process Regression, Neural Networks; *Unsupervised* - KMeans, Principal Component Analysis (PCA); *Time series Analysis*-RNNs, GRUs, LSTMs, Linear Dynamical Systems, Dynamic Mode Decomposition (DMD).

	• **Deep Learning & Computer Vision:** *Image classification, object detection, image segmentation, activity recognition* - CNNs, Vision Transformers (ViT), *Generative Modeling*-GANs, VAEs, Diffusion Models; *Reinforcement Learning* (*Deep RL*)- DQN, DDQN, PPO, A3C. • **Data Science Tools:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, etc. • **Data Systems:** *Database Management Systems* (*DBMS*)-MySQL, SQLite, Relational Schema Design; *Data mining and warehousing, pattern recognition*. • **Information and Network Security:** *Network Monitoring*-firewall configuration (Cisco), Wireshark; Data Backup & Recovery, System Hardening, Information Security (IPsec, SSL and TLS, DTLS, SNMP, Kerberos, HTTP and HTTPS). • **ICT Infrastructure:** System and Application Software Support, Server Administration, LAN/WAN Configuration, End-User Support.
INSTRUCTIONAL SKILLS	
	• Participated in curriculum development and accreditation. • Course content preparation and delivery (in-person, hybrid, and asynchronous online formats). • Student -centered mentorship, academic support and advising. • Learning management systems (Moodle, Google Classroom). • Inclusive pedagogy and culturally responsive instruction. • Assessment design: quizzes, exams, project-based evaluation. • Peer learning facilitation and collaborative teaching methods.
SOFT SKILLS	
	• Communication and collaboration across disciplines and departments. • Adaptability in multicultural and interdisciplinary environments. • Effective written and verbal communication. • Team collaboration and academic leadership. • Continuous professional development and reflective practice. • Participation in institutional governance and quality assurance. • Cross-disciplinary collaboration. • Community outreach and industry engagement.
ACADEMIC RESEARCH EXPERIENCE	
2021-2025	**DESIGN OF NEURO-FUZZY BASED AI METHODS FOR AQUACULTURE AUTOMATION** ***Doctoral Dissertation*** • *Problem*: Aquaculture sustainability is threatened by water quality degradation and fish disease outbreaks worsened by lack of intelligent, real-time monitoring systems. • *Objective*: To develop AI-driven models for automated fish disease detection and water quality forecasting to enable early interventions and optimized management. • *Method*: Designed deep learning and neuro-fuzzy models (attention-augmented U-Net, CNN-OSELM, LSTM-Transformer, kernelized YOLOv7) and a novel fuzzy feature selector for real-time disease detection and water quality prediction. • *Results*: Achieved real-time, scalable, and interpretable models with over 99% detection accuracy, improving early diagnosis, prediction reliability, and operational decision-making in aquaculture systems.
2023-2024	**AUTOMATIC DETECTION AND CLEANING OF BIRD DROPPINGS ON SOLAR PV PANELS** ***AU Optronics Company Funded Project - Research Asisstant*** • *Problem*: Bird droppings on solar PV panels reduce energy efficiency and increase maintenance costs, with manual inspection and cleaning being impractical for large-scale installations.

	• *Objective*: To develop an automated, drone-based system for detecting bird droppings and deploying cleaning drones for targeted removal. • *Method*: Built a dual-drone detection system using YOLOv7 object detection models, integrated GPS localization, and established communication protocols for automated inspection and cleaning. • *Results*: Achieved high detection accuracy and precise GPS-based cleaning, enabling efficient, automated maintenance in solar panel management.
2018-2020	**MODELING AND PREDICTING PIPED WATER THEFT USING MACHINE LEARNING APPROACH** ***Masters Thesis*** • *Problem*: Water theft in piped distribution systems causes financial losses, contamination, and supply disruptions, with existing hardware-based detection methods proving inadequate for dynamic, complex scenarios. • *Objective*: To develop a machine learning-based system to predict and classify piped water theft using flow sensor data for intelligent monitoring and prevention. • *Method*: Collected real-time flow data using Arduino-connected sensors and GSM alerts; trained Random Forest, SVM, KNN, and Logistic Regression models for theft detection, evaluating performance using standard classification metrics. • *Results*: Random Forest and KNN achieved 97% detection accuracy, with Random Forest preferred for its reliable feature importance insights and efficient error handling, providing a robust predictive solution.
2015-2016	**GSM BASED PIPED WATER THEFT DETECTION SYSTEM** ***Bachelors Final Year Project*** • *Problem*: Uganda National Water and Sewearge Corporation (NWSC) faces significant piped water theft, increasing Non-Revenue Water (NRW), with existing manual detection methods proving ineffective. • *Objective*: To design and implement a GSM-based piped water theft detection system capable of automatically detecting theft and alerting administrators in real time. • *Method*: Built a hardware system using flow rate sensors, microcontrollers, and a GSM module, detecting abnormal flow fluctuations and sending SMS alerts for theft events like meter bypass, reversal, tampering, and illegal tapping. • *Results*: Successfully tested the prototype for real-time theft detection and alerting, affirming a possibility for automated water theft detection in Uganda piped water systems, lowering the NRW value.
WORK EXPERIENCE	
2021-2024	**ERNEST COOK UNIVERSITY (ECU) (FORMERLY ERNEST COOK ULTRASOUND RESEARCH AND EDUCATION INSTITUTE)** **MENGO, KAMPALA** ***Position:*** *Lecturer, Computer Science and Software Engineering* **Key Responsibilities and Achievements:** • Successfully developed and delivered course content for undergraduate and postgraduate programs, enhancing curriculum relevance and learner outcomes. • Effectively lectured and facilitated learning using diverse, student-centered teaching methods, leading to improved student engagement and understanding. • Designed and administered comprehensive assessment strategies, including assignments and examinations, ensuring fair and consistent student evaluation. • Consistently provided timely grading and constructive feedback, supporting continuous academic improvement and student success. • Contributed to curriculum design and review, aligning academic programs with industry demands and educational standards.

	• Played a key role in supporting accreditation processes, preparing documentation and ensuring compliance with quality assurance standards. • Successfully supervised numerous student research projects, guiding students from project conception to final reporting. • Implemented evidence-based improvement strategies, enhancing overall teaching effectiveness and student learning outcomes.
2020-2022	**UGANDA HEART INSTITUTE (UHI)** **MULAGO, KAMPALA** **Position:** *Systems Administrator* **Key Responsibilities and Achievements:** • Successfully monitored, optimized, and troubleshooted network performance, improving system reliability through real-time visualization of peformance metrics. • Conducted traffic analysis and usage trend assessments, enabling proactive fault prediction and informed infrastructure planning for LAN and WAN users. • Effectively managed and maintained IP telephony systems, resolving both hardware and software failures to ensure uninterrupted communication services. • Ensured data integrity and business continuity through regular data backups and successful implementation of disaster recovery plans. • Maintained hardware and software systems and managed website updates, contributing to overall ICT infrastructure stability and usability. • Delivered consistent client and server support services, while overseeing ICT procurement processes and vendor contract management to optimize resource use. • Played a key role in the implementation and compliance monitoring of ICT policies, ensuring alignment with organizational standards and regulatory requirements. • Supported the operationalization and management of the Hospital Management Information Systems, enhancing healthcare data handling and service delivery.
2017-2018	**INDIAN INSTITUTE OF HEALTH AND ALLIED SCIENCES** **BOMBO RD., KAMPALA** **Position:** *ICT Officer* **Key Responsibilities and Achievements:** • Network monitoring, traffic analysis, and server maintenance to ensure optimal system performance and availability. • ICT resource optimization and implementation of ICT strategic plans to align technology usage with institutional goals. • Budget planning, procurement, and vendor contract management. • Web content management including updates and routine maintenance. • Deployment and maintenance of hardware and software across organizational units. • Database administration, including regular data backup, and recovery planning. • Server and client system support, ensuring smooth operation of IT infrastructure. • Instruction of Computer Studies to medical students, including lesson planning.
2017-2018	**DATAMINE TECHNICAL BUSINESS SCHOOL (DTBS)** **BOMBO RD., KAMPALA** **Position:** *Instructor* **Key Responsibilities and Achievements:** • Lesson planning and preparation of course content tailored to Diploma programs. • Delivery of lectures and tutorials using appropriate teaching methodologies to promote student engagement and learning. • Design and administration of assessments, including assignments, quizzes, mid-semester and final examinations. • Grading and evaluation of student performance, providing constructive feedback to support academic improvement. • Curriculum design, review, and development to ensure academic relevance and industry alignment.

TEACHING AND CURRICULUM DEVELOPMENT/REVIEW EXPERIENCE

2021-2024 — **ERNEST COOK UNIVERSITY (ECU) (FORMERLY ERNEST COOK ULTRASOUND RESEARCH AND EDUCATION INSTITUTE)** — **MENGO, KAMPALA**

Courses Taught

Postgraduate

- ECU 111: Learning Methods, Computer Basics, Ethics

Undergraduate

- BBE 4101: Embedded Systems in Medicine
- BHI 2204: Artificial Intelligence
- BHI 2201: Programming Methodology III (Python)
- BHI 1202: Programming Methodology I (C)
- BBE 3202 Health Informatics and Expert Systems

Curriculum Development & Review

- BHI 2204: Artificial Intelligence
- BHI 2201: Programming Methodology III (Python)
- Diploma Computer Science Curriculum
- Certificate in Computer Science Curriculum

2017-2018 — **DATAMINE TECHNICAL BUSINESS SCHOOL (DTBS)** — **BOMBO RD., KAMPALA**

Diploma

Courses Taught

- Computer Architecture
- Data Communication and Computer Networks
- Mobile Computing

Curriculum Review

- Computer Architecture

2017-2018 — **INDIAN INSTITUTE OF HEALTH AND ALLIED SCIENCES** — **BOMBO RD., KAMPALA**

Diploma

Course Taught

- Computer Studies/Literacy

Curriculum Development

- Computer Studies/Literacy

PUBLICATIONS

- **S. P. Khabusi**, Y.-P. Huang, and M.-C. Tsai, "DeepAquaNet: Residual Transformer for Robust Underwater Image Restoration, "*Accepted for Presentation at ICSSE-2025 & Publication in IEEE Xplore.*
- **S. P. Khabusi**, P. Atukunda, and J. Othieno, "Using Artificial Intelligence and Perceptual Data to Predict Students User satisfaction of eLearning Systems in Ugandan Institutions of Higher Learning," *Discover Education*, vol...., no…, pp…., (Submitted for Review: Submission ID 774d837d-0c92-48c6-a592-33bda91648ac).
- Y.-P. Huang, **S. P. Khabusi**, M.-C. Tsai, and F. E. Sandnes, "An adaptive learning-based model for water quality assessment in aquaculture," *IEEE Trans. on Systems, Man, and Cybernetics*, vol…, no…, pp…., Mar. 2025. (Submitted for Review: SMCA-25-03-0926).
- Y.-P. Huang and **S. P. Khabusi**, "Artificial intelligence of things (AIoT) advances in aquaculture: A review," *Processes*, vol. 13, no. 1, pp.1-47, Jan. 2025.
- P. Atukunda, **S. P. Khabusi**, and J. Othieno, "Analysis of user satisfaction of e-learning systems in Uganda using DeLone and McLean model," *Discover Education*, vol. 3, no. 194, pp.1-24, Oct. 2024.
- **S. P. Khabusi**, Y.-P. Huang, M.-F. Lee, and M.-C. Tsai, "Kernelized YOLOv7 for

	fish localization and ensemble learning for robust multiclass classification of fish diseases," in *Proc. of 2024 International Automatic Control Conference (CACS 2024)*, Longtan, Taoyuan, Taiwan, pp.1-6, Nov. 2024. • **S. P. Khabusi**, Y.-P. Huang, and V. P. Vu, "Weighted fuzzy rough sets feature selection for high dimensional classification problems," in *Proc. of 2024 IEEE Int. Conf. on Systems, Man, and Cybernetics (SMC)*, Kuching, Malaysia, pp.1005-1010, Oct. 2024. • **S. P. Khabusi**, Y.-P. Huang, M.-F. Lee, and M.-C. Tsai, "Enhanced U-Net and PSO-optimized ANFIS for classifying fish diseases in underwater images," *Int. Journal of Fuzzy Systems*, vol. 26, no. 8, pp.2518-2535, Jun. 2024. • Y.-P. Huang and **S. P. Khabusi**, "A CNN-OSELM multilayer fusion network for fish disease recognition in aquaculture," *IEEE Access*, vol. 11, pp.58729-58744, May. 2023. • **S. P. Khabusi**, Y.-P. Huang, and M.-F. Lee, "Attention-based mechanism for fish disease classification in aquaculture," in *Proc. of 2023 Int. Conf. on Syst. Sci. and Eng. (ICSSE)*, Ho Chi Minh City, Vietnam, pp.95-100, Jul. 2023. • **S. P. Khabusi**, P. Pheroijam, and S. Kshetrimayum, "Attention-based approach for cassava leaf disease classification in agriculture," in *Proc. of 2023 Int. Conf. on Energy, Power, Env., Control, and Comp.*, Gujrat, Pakistan, pp. 1-6, Mar. 2023. • **S. P. Khabusi** and Y.-P. Huang, "A deep learning approach to dissolved oxygen prediction in aquaculture", in *Proc. of 2022 Int. Conf. on Advanced Robotics and Intelligent Syst. (ARIS)*, Taipei City, Taiwan, pp.1-6, Aug. 2022. • **S. P. Khabusi** and R. Jindal, "Modeling and predicting piped water theft using machine learning approach", *Int. Journal of Recent Tech. and Eng. (IJRTE)*, vol. 9, no. 1, pp.304-311, May 2020. • **S. P. Khabusi** and R. Jindal, "Pressure dependent piped water theft detection with IOT based remote billing and location alert," in *Proc. of 2019 Int. Congress on Applied Information Technology (AIT), Yogyakarta*, Indonesia, pp.1-6, Nov. 2019. • **S. P Khabusi** and R. Jindal, "Secure information exchange and performance implications on web server: A case study of Secure Socket Layer Protocol", *Int. Journal of Sci. and Research (IJSR)*, vol. 9, no. 4, pp.437-444, Apr. 2020.
PEER REVIEWS	
	• Reviewed 12 manuscripts for *IEEE Access* Journal • Reviewed 2 manuscripts for *Computers and Electronics in Agriculture* Journal • Reviwed 1 manuscript for *IEEE Transactions on Systems, Man, and Cybernetics: Systems* (*SMCA*) Journal • Reviwed 1 manuscript for *Aquacultural Engineering* Journal • Reviwed 1 manuscipt for *Aquacultural Research* Journal
CONFERENCES AND SEMINARS	
	• International Automatic Control Conference (CACS)-Taoyuan, Taiwan, Nov. 2024. • International Conference on Systems, Man, and Cybernetics (SMC)-Kuching, Malaysia, Oct. 2024. • International Conference on Fuzzy Systems and its Applications (iFUZZY) - Penghu, Taiwan, Oct. 2023. • International Automatic Control Conference (CACS)- Penghu, Taiwan, Oct. 2023. • International Conference on System Science and Engineering (ICSSE) - Ho Chi Minh, Vietnam, Jul. 2023. • 1st International Conference on Energy, Power, Environment, Control and Computing (ICEPECC) - Gujrat, Pakistan, Mar. 2023. • International Conference on Advanced Robotics and Intelligent Systems (ARIS) - Taipei City, Taiwan. • International Congress on Applied Information Tech. (AIT) - Yogyakarta, Indonesia,

	Nov. 2019. • International Symposium on Sustainable Development - Yogyakarta, Indonesia, Nov. 2019. • International Seminar on Utility of Physical Education, Fitness, Wellness and Health in present scenario - Uttar Pradesh, India, Oct. 2019. • Veena Memorial Seminar on Research Writing - New Delhi, India, Sep. 2019. • 9th eLearning Africa International Conference - Kampala, Uganda, May 2014.
GRANTS, FELLOWSHIPS, AND AWARDS	
	• National Science and Technology Council Research Fellowship (2023-2025). • Outstanding International Graduate Student Scholarship of the National Taipei University of Technology (2021-2025). • AU Optronics Research Assistantship (2023-2024) • Honorable Mention, Intelligent Innovation and Interdisciplinary Creation Contest of Ministry of Education, Taiwan (2023). • Best Conference Paper Award of International Conference on Fuzzy Systems and its Applications (2023). • International Conference Travel Grant of Delhi Technological University (2019). • Indian Council for Cultural Relations - Africa Scholarship Scheme (2018-2020). • Government of Uganda Public University National Merit Scholarship (2012-2016).
MEMBERSHIP IN PROFESSIONAL BODIES	
	• IEEE Graduate Student Member (2022-Date) • IEEE Young Professionals Member (2022-Date)
OTHER RESPONSIBILITIES	
	• Taipei Section Lead, 2024 IEEE Xtreme (Programming). • Advisor Busitema University Computer Engineering Society (2015-2016). • Advisor Busitema University St. Bruno Catholic Community (2015-2016). • Chairperson Busitema University St. Bruno Catholic Community (2014-2015). • Advisor Busitema University Bamasaaba Students Association (2014-2015). • Chairperson Busitema University Bamasaaba Students Association (2013-2014). • Mobilizer James Ogoola Hall of Residence, Busitema University (2013-2014).
REFEREES	
	1) **Prof. Yo-Ping Huang, Ph.D., FIEEE, FIET, FCACS, FTFSA, FAAIA** President National Penghu University of Science and Technology, Penghu, Taiwan 88046, and Chair Professor, Department of Electrical Engineering, National Taipei University of Technology, Taipei, Taiwan 10608. Email: yphuang@ntut.edu.tw; yphuang@gms.npu.edu.tw Tel: +886-2-27712171 ext 2152 2) **Prof. Gilbert Gilbrays Ocen, Ph.D.,** Associate Professor, Department of Computer Engineering, Director, Directorate of ICT, Busitema University. Email: gocen@busitema.ac.ug Mobile: +256 700767590 3) **Monicah Rullonga Kanyesigye, Ph.D** Deputy Academic Registrar Kabale University Email: mrkanyesigye@kab.ac.ug Tel: +256 703 393459

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REPUBLIC OF CHINA(TAIWAN)
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8.案號 Number	114100023973-001
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Chen, Tsui-Hua

Officer, Bureau of Consular Affairs

For The Minister of Foreign Affairs

11.附註：
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S143491

TAIPEI TECH 國立臺北科技大學

National Taipei University of Technology

The President of National Taipei University of Technology,
on the Recommendation of the Graduate Council, Has Conferred upon

Simon Peter Khabusi

Who Has Satisfactorily Fulfilled All Requirements for
the Degree of

DOCTOR OF PHILOSOPHY

in Electrical Engineering,

with All the Rights, Privileges, and Honors Thereunto Appertaining,
in Witness Whereof the Seal of the University and the Signature of
the Proper Authority Is Hereunto Affixed.
Given in Taipei, Taiwan, Republic of China
The Thirtieth of June, in the Year of Two Thousand and Twenty Five

PRESIDENT OF THE UNIVERSITY

PROVOST OF ACADEMIC AFFAIRS

Student ID NO.109319411

國立臺北科技大學

前往地區:烏干達共和國

(Republic of Uganda)

2025 Pei-yuan-ming-jen-Peng-tzu

案號：北院民認彭字 770583 號 日期：JUL 18 2025
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公 證 人
Notary Public

Peng, Li-Ting

公證人 彭莉婷

事務所地址：台北市信義區基隆路1段163號6樓之3
(02)2764-6000/litin@taipeinotary.org
6F.-3, No. 163, Sec 1, Keelung Rd.,
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中華民國文件證明專用
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2.簽署人 has been signed	彭莉婷 Peng, Li-Ting
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7.由 by	外交部 Ministry of Foreign Affairs
8.案號 Number	114100023973-005
9.章戳 Seal/stamp:	10.簽署 Signature:

Chen, Tsui-Hua

Officer, Bureau of Consular Affairs

For The Minister of Foreign Affairs

11.附註：
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S143495

NATIONAL TAIPEI UNIVERSITY OF TECHNOLOGY

Taipei, Taiwan, R. O. C.

Name: Simon Peter Khabusi Date of Birth: Apr. 24, 1992 Date Enrolled: Feb. 2021 Date Conferred: Jun. 2025 Date Issued: Jul. 17, 2025

Graduate Institute: Department of Electrical Engineering

Degree Conferred: Doctor of Philosophy in Electrical Engineering

The following transcript is hereby certified as correct according to the record of the university. Student ID: 109319411

Course	1st Semes. Credit	1st Semes. Grade	2nd Semes. Credit	2nd Semes. Grade
(2022 - 2022)				
Graduate seminar - control engineering			1.0	B
Graduate Seminars			1.0#	W
Data Mining			3.0#	A
Machine Learning			3.0#	W
Conduct	---		---	A
Total Credits & Average			4.0	A
(2022 - 2023)				
Graduate seminar - control engineering	1.0	A	1.0	A
Fuzzy Control	3.0#	A		
Deep Learning for Digital Image Analysis	3.0#	A		
Optical Communication	3.0#	A		
Doctoral Dissertation			3.0	
Deep Learning			3.0#	A
Building Deep Learning Applications			3.0#	A
Digital Image Processing			3.0#	A
Conduct	---	A	---	A
Total Credits & Average	10.0	A	10.0	A
(2023 - 2024)				
Graduate seminar - control engineering	1.0	A		
Doctoral Dissertation	3.0		3.0	
Technical Writing	3.0	A		
Conduct	---	A	---	A
Total Credits & Average	4.0	A	0.0	---
(2024 - 2025)				
Doctoral Dissertation	3.0			
Conduct	---	A	---	A
Total Credits & Average	0.0	---	0.0	---
Conduct	---		---	
Total Credits & Average				
Thesis				A

Course	1st Semes. Credit	1st Semes. Grade	2nd Semes. Credit	2nd Semes. Grade
Total Credits "28.0"				
GPA "3.96"				
Rank in Department : 2/7				
FINISHED				

Course	1st Semes. Credit	1st Semes. Grade	2nd Semes. Credit	2nd Semes. Grade

Remarks: The grading system is as follows: 80 or more=A; 70 to 79=B; 60 to 69=C; 50 to 59=D; less than 50=E; 70=the passing grade; W=Withdrawal; CW=Course Waived; P=Passing; F=Failing; #=English as a Medium of Instruction.

Signature: Wan-Ting Huang
Registrar

Signature: Yuh-Shyan Hwang
Provost of Academic Affairs

B208644

前往地區:烏干達共和國(Republic of Uganda)

2025 Pei-yuan-ming-jen-Peng-tzu

案號：北院民認彭字 770584 號日期：JUL 18 2025
Case No.: Date:
本 國立臺北科技大學成績單，在臺灣臺北地方法院所屬民間公證人天正聯合事務所認證。 公證人 彭 莉 婷
This official document is attested at The Tian Zheng Notary Public Office, Taiwan Taipei District Court, Republic of China.

公 證 人
Notary Public

Peng, Li-Ting

公證人 彭莉婷

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Xinyi Dist, Taipei City 110, Taiwan(R.O.C.)

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Serial No. 43905

अनुक्रमांक 2K18/CSE/22
Roll No.

दिल्ली प्रौद्योगिकी विश्वविद्यालय
DELHI TECHNOLOGICAL UNIVERSITY

मास्टर ऑफ़ टेक्नोलॉजी

विश्वविद्यालय की शैक्षणिक परिषद की अनुशंसा पर

खबूसि सिमन पीटर

को कंप्यूटर साइन्स एंड इंजीनियरिंग में मास्टर ऑफ़ टेक्नोलॉजी

की उपाधि प्रदान की जाती है, जिन्होंने इस उपाधि को प्रदान किए जाने हेतु विश्वविद्यालय के अध्यादेशों के तहत निर्धारित अपेक्षाओं को वर्ष 2020 में 10 अंकीय मापक्रम पर 8.31 संचयी कोटि अंक माध्य (सी.जी.पी.ए.) के साथ सफलतापूर्वक पूर्ण कर लिया है।

इन्हें उक्त उपाधि से सप्तम् दीक्षान्त समारोह में 24 दिसंबर 2020 को विभूषित किया गया।

MASTER OF TECHNOLOGY

Upon the recommendation of the Academic Council of the University

KHABUSI SIMON PETER

is awarded the degree of

Master of Technology in Computer Science & Engineering

who has successfully completed the requirements prescribed under the ordinances of the University for the award of this degree with a Cumulative Grade Point Average (CGPA) of 8.31 on a 10 point scale in the year 2020.

He/She is admitted to the said degree at the 7th Convocation held on December 24, 2020.

No kam/cons/UGAK2000104321/2022 21/1/2022

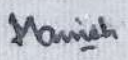
(BIDHAN CH. SADHUKHAN)
Assistant Consular Officer
High Commission Of India
Kampala

ATTESTED
TRUE COPY

परीक्षा नियंत्रक
Controller of Examination

दिल्ली, (भारत) दिनांक December 24, 2020
Delhi, (India) dated the

कुलपति
Vice-Chancellor

EXAMINATION BRANCH	
Read by	
Checked by	
Verified by	

S. No. 276718

DELHI TECHNOLOGICAL UNIVERSITY

(Formerly Delhi College of Engineering)

Consolidated Grade Report

Master of Technology in Computer Science & Engineering

(Department of Computer Engineering)

Name : KHABUSI SIMON PETER

Roll No.: 2K18/CSE/22

Course Code	Course Title	C	G
Semester : I	**SGPA : 7.35**		
CO-501	ADVANCED DATABASE MANAGEMENT SYSTEMS	3	A
CO-502	PARALLEL COMPUTER ARCHITECTURE	3	B+
CO-503	DATA STRUCTURES AND ALGORITHMS	3	B
CO-551	DISTRIBUTED SYSTEMS	3	B
CO-552	COMPUTER NETWORKS	3	B+
CO-504	SOFTWARE LAB	2	A+
CO-553	NETWORK PROGRAMMING AND SIMULATION LAB	2	A+
CO-554	SELF STUDY OPEN AREA SEMINAR - I	1	A+
Semester : III	**SGPA : 8.25**		
CO-7013	NATURAL LANGUAGE PROCESSING	3	B
CO-7022	ADVANCES IN INTERNET AND WEB TECHNOLOGY	3	A+
CO-703	SELF STUDY OPEN AREA SEMINAR - II	2	A+
CO-704	MINOR PROJECT-II	6	B+
CO-705	MAJOR PROJECT-I	6	O

Course Code	Course Title	C	G
Semester : II	**SGPA : 8.65**		
CO-601	INFORMATION AND NETWORK SECURITY	3	A+
CO-6022	ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS	3	B+
CO-6032	WIRELESS AND MOBILE COMMUNICATION	3	A+
CO-604	INFORMATION AND NETWORK SECURITY LAB	2	O
CO-6511	OPTIMIZATION TECHNIQUES	3	A+
CO-6523	SOFTWARE TESTING	3	A
CO-653	ELECTIVE BASED ON LAB	2	A+
CO-654	MINOR PROJECT-I	1	A+
Semester : IV	**SGPA : 9.00**		
CO-801	MAJOR PROJECT-II	20	A+

No. Kam/cons/UGAK2000016122/2022 9.2.2022

(BIDHAN CH. SADHUKHAN)
Assistant Consular Officer
High Commission Of India
Kampala

ATTESTED TRUE COPY

CREDITS EARNED/TOTAL CREDITS : 80/80

CGPA : 8.31

'C' indicates Course Credits earned .'G' indicates Grades obtained.

RESULT : PASSED

Dated : August 26, 2020

CONTROLLER OF EXAMINATIONS

Date of Declaration of Result: 25/08/2020

Classification of Results :

(i) Structure For Grading of Academic Performance

Academic Performance	Grades	Grade Points
Outstanding	O	10
Excellent	A+	9
Very Good	A	8
Good	B+	7
Above Average	B	6
Average	C	5
Pass	P	4
Fail	F	0
Incomplete	I	--

(ii) The Semester Grade Point Average (SGPA) shall be calculated on the basis of the credits and Grade points in the course of the semester passed by the student as follows :

$$\text{S.G.P.A} = \frac{\sum_{i=1}^{n} C_i X P_i}{\sum_{i=1}^{n} C_i}$$

(iii) The Cumulative Grade Point Average (CGPA) for the degree course :- A student having secured the minimum credits as needed for the degree course will be eligible for the award of degree. The final result will be evaluated as follows :

$$\text{C.G.P.A} = \frac{\sum_{i=1}^{m} C_i X P_i}{\sum_{i=1}^{m} C_i}$$

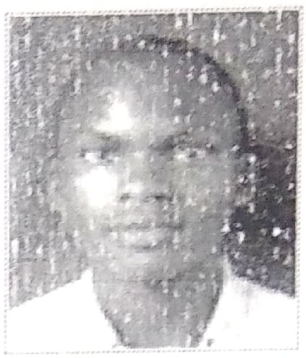
Where C_i credit for the course, P_i the grade points obtained for the course.

Prepared By :	Checked By : Manish

BUSITEMA UNIVERSITY

Pursuing Excellence

BU/2016/0043



This is to Certify that

KHABUSI SIMON PETER

was admitted to the 7th *Congregation of Busitema University on* 3rd OCTOBER 2016 *having attended and successfully fulfilled the requirements for the award of a*

BACHELOR OF COMPUTER ENGINEERING DEGREE

Second Class (Hons) - Lower Division

The Republic of Uganda
MINISTRY OF FOREIGN AFFAIRS
CERTIFICATION
This is to certify that the certificate is duly awarded by officially recognized institution in Uganda.
Certifying Officer:
For: Permanent Secretary
07-01-2022
07-01-22

BUSITEMA UNIVERSITY
P. O. BOX 236, TORORO
P. O. BOX 236, BUSIA
02 AUG 2018
SIGN:
CERTIFIED TRUE COPY OF THE ORIGINAL

HIGH COMMISSION OF THE REPUBLIC OF UGANDA
CERTIFICATION
This is to certify that this certificate is duly awarded by an officially recognized institution in Uganda
Certifying Officer:
For: HIGH COMMISSIONER
Date: 25-01-2022

Vice-Chancellor

Academic Registrar

BUSITEMA UNIVERSITY
Pursuing Excellence

HIGH COMMISSION OF THE REPUBLIC OF UGANDA
PRIVATE CERTIFICATION
This is to certify that the certificate is duly awarded by an officially recognized institution in Uganda.
Certifying Officer: ..... For: HIGH COMMISSIONER
Date: 25-01-2022

Academic Transcript

NAME: KHABUSI Simon Peter
REGNO: BU/UG/2012/67
FACULTY: Faculty of Engineering

GENDER: Male
BIRTH DATE: 24 Apr, 1992
PRINT DATE: 28-Sep-2016

First Year — Academic Year: 2012/2013 — Semester One

Code	Course Name	CU	Grade
BCT1101	Electricity and Magnetism	3	C
BCT1102	Introduction to Computing	3	B+
BCT1103	Engineering Mathematics I	3	B+
BCT1104	Principles of Electronics	3	B+
BCT1105	Structured Programming	3	A
BCT1106	Communication Skills	4	B+
BCT1107	Ethics and Gender Studies	2	B

GPA 3.76 CGPA 3.76

First Year — Academic Year: 2012/2013 — Semester Two

Code	Course Name	CU	Grade
BCT1201	Circuit Theory	3	B
BCT1202	Introduction to Digital Logic	3	A
BCT1203	Engineering Mathematics II	3	B
BCT1204	Object Oriented Programming	3	B+
BCT1205	Discrete Mathematics	3	B+
BCT1206	Environmental and Health Studies	3	B
BCT1207	Electronics Lab	2	B+

GPA 3.70 CGPA 3.73

First Year — Academic Year: 2012/2013 — Recess Term

Code	Course Name	CU	Grade
BCT1301	Workshop Practice	5	B+

GPA 4.00 CGPA 3.76

Second Year — Academic Year: 2013/2014 — Semester One

Code	Course Name	CU	Grade
BCT2101	Digital Systems Design	3	
BCT2102	Measurement & Instrumentation	3	
BCT2103	Engineering Mathematics III	3	B+
BCT2104	Electronic Circuits	3	B
BCT2105	Operating Systems	4	B+
BCT2106	Event Driven Programming	3	
BCT2107	Computer Systems Development I	3	B

GPA 3.18 CGPA 3.57

Second Year — Academic Year: 2013/2014 — Semester Two

Code	Course Name	CU	Grade
BCT2201	Engineering Mathematics IV	3	B+
BCT2202	Data Structures & Algorithms	4	B
BCT2203	Computer Systems Development II	3	B
BCT2204	Database Systems	4	B+
BCT2205	Communications Theory	3	B+
BCT2206	Data Communication and Network	3	B+
BCT2207	Research Methods	3	B+

GPA 3.70 CGPA 3.60

Second Year — Academic Year: 2013/2014 — Recess Term

Code	Course Name	CU	Grade
BCT2301	Internship I	4	B+

GPA 4.00 CGPA 3.62

Third Year — Academic Year: 2014/2015 — Semester One

Code	Course Name	CU	Grade
BCT3101	User Interface Design	3	B
BCT3102	Systems Programming	3	B+
BCT3103	Control Systems	3	C
BCT3104	Principles of Software Development I	3	B+
BCT3105	Business Law	3	B
BCT3106	Web-Based Systems	3	A

GPA 3.50 CGPA 3.60

Third Year — Academic Year: 2014/2015 — Semester Two

Code	Course Name	CU	Grade
BCT3201	Computer Architecture	4	C
BCT3202	Digital Signal Processing	3	B+
BCT3203	Mobile Computing	3	C
BCT3204	VLSI Design	4	B+
BCT3205	Project Management	3	B
BCT3206	Mobile Application Development	3	B

GPA 3.00 CGPA 3.51

Third Year — Academic Year: 2014/2015 — Recess Term

Code	Course Name	CU	Grade
BCT3301	Internship II	4	B

GPA 3.00 CGPA 3.50

Fourth Year — Academic Year: 2015/2016 — Semester One

Code	Course Name	CU	Grade
BCT4102	Computer Organization	3	A
BCT4103	Embedded Systems Design	3	B+
BCT4104	Microprocessors & Interfacing	3	A
BCT4105	Systems Security	3	B
BCT4106	Selected Topics in Computer Engineering	3	A

GPA 4.40 CGPA 3.59

Fourth Year — Academic Year: 2015/2016 — Semester Two

Code	Course Name	CU	Grade
BCT4201	Final Year Project	5	A
BCT4202	Managerial Economics & Financial Analysis	3	A
BCT4203	Entrepreneurship	4	A
BCT4204	Optical Fibre Communication	3	B
BCT4205	Modeling and Simulation	3	B+

GPA 4.50 CGPA 3.68

Language of Instruction: ENGLISH

Award :BACHELOR OF COMPUTER ENGINEERING
Class of Award :SECOND CLASS (HONS) - LOWER DIVISION
Minimum Graduation Load(CUs): 170 **Total Credit Units:** 170
Date of Completion :July, 2016
For key to Grades and Remarks, see overleaf

for Academic Registrar

Not Valid without Official Stamp & Seal. Any alteration whatsoever renders the Transcript invalid.

KEY TO GRADES

The Grading Systems and Classification for the first Degrees, Undergraduate Diplomas and Certificates for the intake (2007 to 2009) is as follows:

Grade	Marks	GP	Classification Awards	
A	80 - 100%	5.0	(a) First Degree	(c) Certificates:
B+	75 - 79.9%	4.5	CGPA Class	4.40 - 5.00 Distinction
B	70 - 74.9%	4.0	4.40 - 5.00 1st Class Honours	2.80 - 4.39 Credit
B-	65 - 69.9%	3.5	3.60 - 4.39 2nd Class Honours (Upper Division)	2.00 - 2.79 Pass
C+	60 - 64.9%	3.0	2.80 - 3.59 2nd Class Honours (Lower Division)	
C	55 - 59.9%	2.5	2.00 - 2.79 Pass	
C-	50 - 54.9%	2.0		
D+	45 - 49.9%	1.5	(b) Diplomas:	
D	40 - 44.9%	1.0	4.40 - 5.00 1st Class Honours	
D-	35 - 39.9%	0.5	3.60 - 4.39 2nd Class Honours (Upper Division)	
E	Below 35	0	2.80 - 3.59 2nd Class Honours (Lower Division)	
Pass Mark	50%		2.00 - 2.79 Pass	

The Grading Systems and Classification for the first Degrees, Undergraduate Diplomas and Certificates for the intake 2009 - to date is as follows:

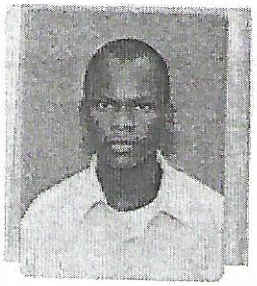
Marks (%)	Letter Code	Grade Point (GP)	Classification	Remarks
75 - 100	A	4.40 - 5.00	First Class Honours	Excellent
65 - 74	B+	4.00 - 4.30	Second Class Honours (Upper Division)	Very Good
55 - 64	B	3.00 - 3.90	Second Class Honours (Lower Division)	Good
50 - 54	C	2.00 - 2.90	Pass	Fairly Good
Below 50	D	0.00 - 1.99	Fail	Poor

KEY TO RESULT / GRADING CODES

AB	Absent	**RR**	Result Obtained after a Repeat Year	**EX**	Exempt	**IP**	In Progress
DY	Dead Year Granted	**RS**	Results obtained after Supplementary Examination	**RW**	Result Withheld	**SE**	Special Examination granted
WD	Withdrawal Granted	**RT**	Results obtained after retaking a course	**GP**	Grade Point	**EL**	Elective Course
NE	Not Examinable	**CTR**	Course to be retaken	**GPA**	Grade Point Average	**EC**	Extra Course
RE	Results Expected	**UE**	University Exhibition	**CGPA**	Cumulative Grade Point Average	**PP**	Probationary Progress
AC	Audited Course	**NP**	Normal Progress	**FE**	Failed Elective		

Uganda National Examinations Board

This is to certify that the candidate named below, and whose photograph appears, sat for the Uganda Advanced Certificate of Education Examination in the year 2011, and qualified for the award of the



Uganda
Advanced Certificate of Education

The candidate passed at the level shown (Principal or Subsidiary) in the subject(s) named and attained the Grade(s) as indicated.

KHABUSI SIMON PETER (AGE 19) U0051 510
MBALE SECONDARY SCHOOL, P.O.BOX 982 MBALE

	U.A.C.E. STANDARD	GRADE
GENERAL PAPER	Subsidiary	3
MATHEMATICS	Principal	A
PHYSICS	Principal	B
CHEMISTRY	Principal	C
BIOLOGY	Principal	C

SUBJECTS RECORDED: *FIVE

Certified True Copy of the Original

MBALE SEC. SCHOOL
28 JUL 2016

Secretary
Uganda National Examinations Board

Chairman
Uganda National Examinations Board

Not valid without a hologram with the UNEB crest.
Hold this document to the light to verify [UNEB] can be seen through the paper.
A thread is running vertically through the sheet.
The photograph of the candidate is printed, not affixed.

A 1118287

(See overleaf)

Uganda National Examinations Board

This is to certify that the candidate named below sat for the Uganda Certificate of Education Examination in the year 2009, and qualified for the award of the

Uganda Certificate of Education

DIVISION I

THE CANDIDATE REACHED THE GRADE SHOWN IN THE SUBJECTS NAMED.

KHABUSI SIMON PETER (AGE 17) U0051/036

MBALE SECONDARY SCHOOL P.O.BOX 982 MBALE

	GRADE
ENGLISH	3 (THREE)
HISTORY	1 (ONE)
GEOGRAPHY	2 (TWO)
MATHEMATICS	1 (ONE)
AGRICULT PRINC & PRAC	1 (ONE)
PHYSICS	2 (TWO)
CHEMISTRY	2 (TWO)
BIOLOGY	2 (TWO)
TECHNICAL DRAWING	5 (FIVE)
COMMERCE	1 (ONE)

SUBJECTS NAMED: TEN SUBJECTS PASSED: TEN

Certified True Copy of the original

MBALE SEC SCHOOL P.O. BOX 982 MBALE 28 JUL 2016

Secretary
Uganda National Examinations Board

Chairman
Uganda National Examinations Board

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Hold this document to the light to verify 5 can be seen through the paper.
A thread is running vertically through the sheet.

U 2056388

(See overleaf)

July 25, 2025

To Whom It May Concern

I am pleased to write this letter of recommendation for Dr. Simon Peter Khabusi, who recently completed his Ph.D. in Electrical Engineering with a specialization in Artificial Intelligence under my supervision at the National Taipei University of Technology. Throughout his doctoral studies, Dr. Khabusi has consistently demonstrated outstanding research aptitude, technical expertise, and a deep commitment to academic excellence.

His dissertation focused on the design of neuro-fuzzy based AI methods for aquaculture automation, addressing critical challenges such as water quality forecasting, fish disease detection, and feeding optimization. This work, which integrates machine learning, deep learning, fuzzy logic, and computer vision, contributes to the sustainability and intelligence of modern aquaculture systems. His contributions were instrumental to projects supported by the National Science and Technology Council and AUO Co., where his creativity and problem-solving abilities significantly advanced our research objectives.

Academically, Dr. Khabusi achieved an excellent GPA of 3.96, with an average score of 91.14, ranking 2nd in a cohort of 9. In addition to his coursework, he maintained a strong record of research productivity: three journal publications, five conference papers, and a fourth journal article currently under review in a prestigious international journal. He is also preparing a fifth journal submission, underscoring his ongoing commitment to scholarly advancement.

Dr. Khabusi's work has received national and international recognition. Notably, he received an Honorable Mention at the 2023 Intelligent Innovation and Interdisciplinary Creation Contest organized by Taiwan's Ministry of Education, and won the Best Paper Award (1st place) at the 2023 International Conference on Fuzzy Systems and Its Applications (iFUZZY).

Given his strong academic background, innovative research experience, and demonstrated teaching potential, I recommend him without reservation for a teaching/research position at your institution.

If you require any further information, please do not hesitate to contact me.

Sincerely,

Yo-Ping Huang, Ph.D., FIEEE, FIET, FCACS, FTFSA, FAAIA
President National Penghu University of Science and Technology
Penghu, Taiwan 880011
Chair Professor, Department of Electrical Engineering
National Taipei University of Technology
Taipei, Taiwan 10608
VP for Conferences and Meetings (2022-2025), IEEE SMCS
AE, IEEE Trans. on Systems, Man, and Cybernetics: Systems
AE, Int. J. of Fuzzy Systems
AE, IEEE Trans. on Artificial Intelligence
AE, Processes
Tel: +886-2-27712171 x 2152
Fax: +886-2-27317187