

PERSONAL INFORMATION **Tuyishime Emmanuel**

EDUCATION

2022–Present **PhD - Thesis Title: “Addressing Cybersecurity Challenges In Remote Engineering Systems.”**

Field: Electronic Engineering, Telecommunications and Information Technologies.

Faculty of Electrical Engineering and Computer Science.

Transilvania University of Brasov, Brasov, Romania.

– Visiting PhD Student [May 2024–August 2024]

Erasmus+ Practice Mobility.

Department of Electrical and Electronic Engineering.

University of Cagliari, Cagliari, Italy.

2020–2022 **Master’s in Cybersecurity**

Field: Electronic Engineering, Telecommunications and Information Technologies.

Faculty of Electrical Engineering and Computer Science.

Transilvania University of Brasov, Brasov, Romania.

2014–2018 **BSc (Hons) in Computer Engineering**

University of Rwanda, College of Science and Technology, Kigali, Rwanda.

TRAININGS & CERTIFICATIONS

2024 : Special course on the Intro to 5G & Beyond Cellular Networks: From Theory to Practice, University of Cagliari, Italy.

2023 : Doctoral Course on Digital Transformation, IDOCOS.

2022 : Graduate Internship in International Development, Dataville Research LLC.

2021 : IT Technical Support Professional Certificate, Google.

2021 : Cisco Threat Hunting Workshop.

2021 : Cisco Certified CyberOps Associate.

2018 : Cisco Certified Network Associate (CCNA-Routing & Switching).

PROFESSIONAL EXPERIENCE

July 2020 – Oct 2020 **IT Technician**

Mango Telecom Ltd, Kigali, Rwanda

- Installed and configured network systems for clients.
- Monitored network infrastructure and resolved technical incidents.
- Diagnosed connectivity and system security issues.
- Managed user accounts, email services, and permissions.

Business or sector Telecommunications.

Sept 2018 – May 2020 **IT Administrator**

Nambari Grant Thornton, Kigali, Rwanda

- Oversaw IT infrastructure, including networks, servers, and endpoints.
- Installed, configured, and maintained Windows servers.
- Performed system upgrades, patch management, and security updates.
- Managed user accounts, permissions, and access control.
- Managed firewalls and antivirus solutions.
- Implemented and managed data backup and recovery procedures.
- Diagnosed and resolved hardware, software, and network issues.
- Provided technical support for system-related problems.

Business or sector Financial & Audit services.

July 2017 – Oct 2017 Internship - System Administration

Institute of Legal Practice and Development, Nyanza, Rwanda.

Business or sector Higher Education.

PERSONAL SKILLS

Mother tongue Kinyarwanda

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B2	B2	B1	B1	B2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
Common European Framework of Reference for Languages

SELECTED PUBLICATIONS

- 2026 **Tuyishime, E.**, Cotfas, P. A., Balan, T. C., Rekeraho, A., Cotfas, D. T., & Popescu, V. (2026). *ML-Based Intrusion Detection in IoT/IIoT with Privacy-Aware Offloading to Cloud SIEM*. Proceedings of the 12th International Conference on Information Systems Security and Privacy (ICISSP), Vol. 1, SciTePress, pp. 489–496. DOI: <https://doi.org/10.5220/0014213600004061>
- 2025 **Tuyishime, E.**, Martalò, M., Cotfas, P. A., Popescu, V., Cotfas, D. T., & Rekeraho, A. (2025). *Resource-Efficient Traffic Classification Using Feature Selection for Message Queuing Telemetry Transport–Internet of Things Network-Based Security Attacks*. Applied Sciences, 15(8), 4252. DOI: <https://doi.org/10.3390/app15084252>
- 2024 **Tuyishime, E.**, Radu, F., Cotfas, P., Cotfas, D., Balan, T., & Rekeraho, A. (2024). *Online Laboratory Access Control with Zero Trust Approach: Twingate Use Case*. Proceedings of the 16th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), IEEE, pp. 1–7. DOI: <https://doi.org/10.1109/ECAI61503.2024.10607562>
- 2023 **Tuyishime, E.**, Balan, T. C., Cotfas, P. A., Cotfas, D. T., & Rekeraho, A. (2023). *Enhancing Cloud Security—Proactive Threat Monitoring and Detection Using a SIEM-Based Approach*. Applied Sciences, 13(22), 12359. DOI: <https://doi.org/10.3390/app132212359>

Complete publication list (ORCID): <https://orcid.org/0009-0004-1225-6051> .