

# COMPANY PROFILE



## **Research for Secure computing Ltd**

DOCUMENT

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**Company profile**

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PREPARED BY

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*Managing Director*

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DATE

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**November , 2019**

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## INTRODUCTION

Located at House No. 1843 – Kilimahewa street in Salasala, AA RESEARCH FOR SECURE COMPUTING LTD is a Tanzanian company registered by the Registrar of Companies with registration number 101967. Its Taxpayer Identification Number is 122-344-797.

AARSC conducts researches on communications and computing security technologies; some of the research findings are shared to the public in form of training, consultancy, publications on journals and magazines. Making use of our highly qualified experts, the company also conducts penetration testing using state of the art Artificial Intelligence tools. We pen test web applications, computer software, mobile apps and communications infrastructures.

AARSC began its business operation in year 2013 by operating an ICT security magazine known as TechMagazine. The magazine is now being transformed into an electronic version with paid subscriptions.

AARSC is focusing exclusively in high quality and cost-effective cyber security and penetration testing services. We are advancing on a tremendous pace and with involvement of skilled and experienced people working in the organization. Our services are beneficial to Governments, Banking, Large Corporate, Telecom and in the Media Sector.

## AARSC LTD – YOUR AUTOMATION PARTNER

One of the question which troubles organization worldwide in today's era of electronic communications is HOW SECURE ARE WE? We understand that each organization has got to deal with the reality of the UNKNOWNNS. There are known knowns, i.e. those things we know that we know. There are also the known unknowns, i.e. those things we know that we do not know. We also have the unknown unknowns; things we do not know and have no clue whatsoever.

In the asymmetric warfare of cyber-attacks, the defenders have to know all of the unknowns and this is where the concept continuous security validation comes in handy. Knowing the state of your organization's security posture on a continuous basis is beyond ticking boxes (compliance). A methodology is required that comprehensively and continuously validate existing security investments so as to have visibility into the unknowns.

Having a ONCE a year penetration testing and ONCE a quarter vulnerability assessment does NOT make any security sense. More so, when the IT Infrastructures are dynamic in its operations. Threat adversaries are leveraging sophisticated platforms such as Artificial Intelligence (AI) to effortlessly bypass existing rules-based security controls. It is imperative for Security and Risk managers to change their strategies and evolve into methodologies that seeks to disrupts, slow down and frustrates the bad guys (externally and internally).

AARSC LTD is formed by a group of professionals having vivid experience and wide exposure in Information Technology. People involved here are young qualified Tanzanians and qualified ethical hackers from the renowned universities and training institutes across the globe.

It is a company where professionals from both technical and functional field group together with an objective of providing appropriate business solutions. It realizes the importance of functional knowledge and its impact in developing business solutions. We constantly strive to be a leading cyber security service provider firm with profound business and functional knowledge. The key to the company's success is the maintenance of a close working relationship with the clients through ensuring the best possible solutions to their needs; to establish and maintain a thorough knowledge and understanding of client's objective and help them maximize the benefits.

We want to establish ourselves as the best choice in Computing and ICT Security, Consultancy and Development by offering the full spectrum of services.

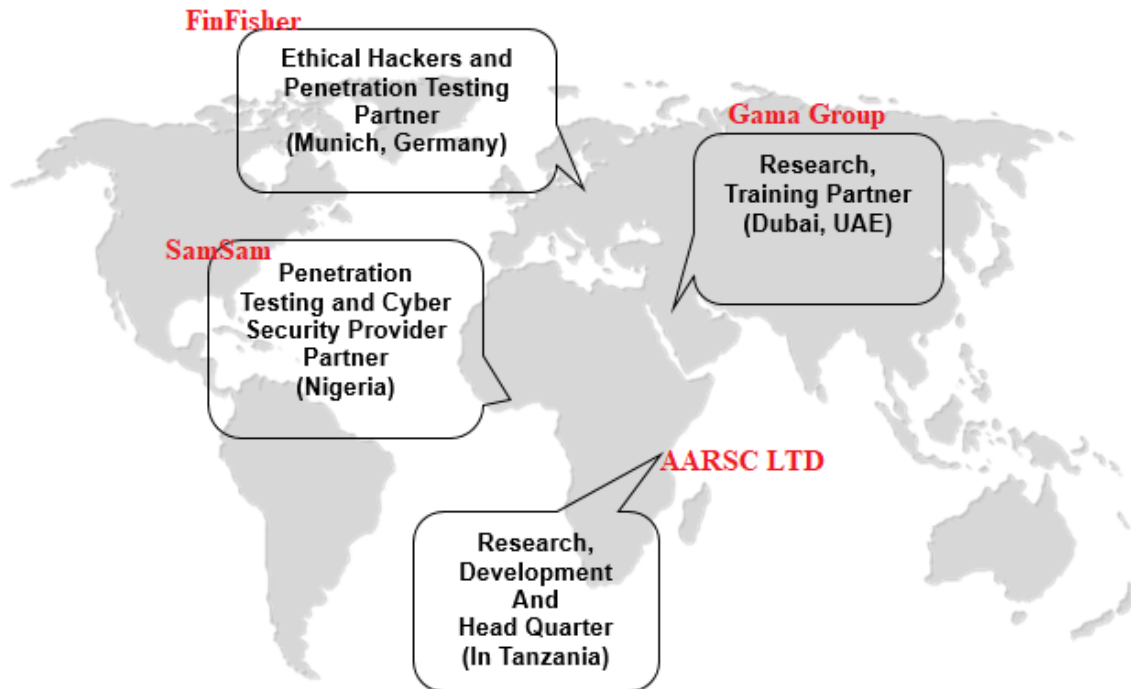
## **OUR MISSION AND VISION**

Our Mission is to achieve the reputation of a quality, high standard & reliable solution & service Provider Company in the ICT Security industry.

Our Vision is to conduct research that will help uncover security flaws in ICT infrastructures and electronic devices, thereafter, provide a necessary knowledge on how to mitigate the possible cyber-attacks. Our forward vision is to strive to become an entity in technology based corporate solutions, capable of demanding unconditional response from the targeted niche. We also believe that for our scope of improvisation – sky is the limit and we are always ready to take our achievements to the next level. We are growing and would always like to remain on the growing streak.

## OPERATIONS ABROAD

AARSC LTD closely works for establishing business setup at African and Middle East market. We collaborate with ICT Security Researchers, ICT Research firms, Ethical Hackers and ICT Security Solution providers worldwide.



## OUR INVOLVEMENTS

### ✓ ICT Consultancy

We consult for high-end technology implementation at clients' site or implementation of new security technology according to the clients' requirement or upgrading, enhancing the existing facilities in the clients end with the new technology integrated with the existing one. AARSC offers a full range of consulting services to help analyze your business requirements for effective implementation of solutions. Our consulting services cover:

- Strategy ICT security planning
- Risk Assessment
- Procurement of ICT Security technology
- Re-engineering and or reverse engineering solutions

✓ **Software and Hardware Solution Development**

Beside the hardware and network solutions; with design and development expertise in diverse platforms, best-of-breed tools and techniques, combined with industry best practices, AARSC LTD offers scalable end-to-end security application development and management solutions from requirement analysis for deployment and rollout. We are developing tactical and strategic computer surveillance solutions, cryptographic applications and communications interceptions solutions. We hope to come to you with desired software at a reasonable cost.

✓ **Continuous Cybersecurity Validation and Assessment Program**

The sophistication of adversaries, including nation states, and the constantly changing nature of the threat has created an arms race between threat actors and IT security functions. As at today, many organizations do not have an effective means of knowing their true cyber risk and which vulnerabilities have the highest negative business impact potential.

AARSC LTD introduces a methodology that provides for an optimal way for an organization to test its resilience against the growing cybercrime. The methodology consists of various real time and continuous validation programs, amongst which is - targeted attack simulations that use multi-vector simulated attacks. We offer this service in collaborations with partners abroad.



## TRAINING & SUPPORT SERVICES

To address security concerns of information systems, systems administrators have to make sure that their systems are safe and also install a mechanism that will enable users enjoy security features of the service offered. Security of any electronic system is two folds: 1. It has to be properly installed (configured) at the server side (service provider) and 2. Users must take precautionary measures which will not allow user-side related attacks like the use of applications (programs) that can install spyware in their devices. Of the two, the main player in security assurance of electronic systems is the service provider.

Security weaknesses of electronics systems depends on how they are configured. According to the study we did on Website security in Tanzania cyber space in year 2015/2016[1], most of the weaknesses observed in Tanzanian based websites were a result of misconfigurations. Also, in late 2016 and early 2017, we extended our study to include cross examinations of mail servers and online database security[2], where it was still observed that misconfigurations was the major cause of security issues resulting in code injections, especially SQL and Shell Injections[3].

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- [1]: Geoffrey Kilimba. WEBSITE SECURITY IN TANZANIA: Uncovering Vulnerabilities Existing in Tanzanian Cyberspace and their Impact to Information Leakages. A research published at COSTECH. 2016
- [2]: Geoffrey Kilimba. The State of Website Security in Tanzania: *A cross Examination of Mail Server Security*. COSTECH. January 2017.
- [3]: Geoffrey Kilimba. **SQL INJECTION: How Evil it Can Be? A case Study for Tanzania based Online Database Servers**. A Practical Paper Presented at COSTECH. 2017
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Training courses offered by AARSC LTD are constantly updated on <https://aasecure.co.tz/training/> some of which includes:

- ✓ Information Security Basics
- ✓ Analysis of Ethical Hacking Tools and Platforms
- ✓ Penetration Testing Methodology
- ✓ Web Applications Security Testing
- ✓ WiFi attacks
- ✓ GSM network security Auditing
- ✓ Applied Cryptography
- ✓ Applied Cryptanalysis
- ✓ Practical Computer Intrusion
- ✓ Hacking Mobile Phones
- ✓ Digital Forensic Examination

The training can be offered in country or abroad in collaborations with our partners who have established a world class computer hacking and intrusion laboratory in Munich, Germany.

## **AREAS OF EXPERTISE**

Main Strength of AARSC lies in the blend of professionals, specialized and highly focused operation. The company has also partnered with highly experienced firms abroad that deals with penetration testing, training and research. Our strength lies in our ability to blend current management practice and ICT expertise into cost-effective Computer Aided Management Solutions, Products and Services.

## **Key Experts:**

### **GEOFREY APPOLYNARY KILIMBA**

Mr. Kilimba is a Masters degree holder (MSc. Digital Electronic) offered jointly by the University of Sussex and the University of Brighton in the UK. He also attended courses on penetration testing and awarded a Certificate in Ethical Hacking from a South African based security research institute – Sense Post.

Kilimba is a researcher on cyber security; he has served as a member of The National Research Registration Committee (NRRC) and also as a member of the National ICT R&D Advisory Committee which is housed at the Commission for Science and Technology (COSTECH). He has been a keynote speaker in various ICT security conferences organized by the ICT Commission and other ICT stakeholders in Tanzania and abroad.

Geoffrey has spent time researching on information and communications security technologies. His current research works are based on cryptographic systems, GSM security, Malware Analysis and Digital forensics. He is also a Technical Editor at TechMagazine – An online Tanzanian based ICT security magazine.

### **Dr. KOSMAS KAPIS**

Dr Kapis is a PhD holder which was jointly graduated from Delft University of Technology (TU-Delft) of The Netherlands and The Open University of Tanzania (OUT). He specializes in applied Cryptography. He is a founder and first Leader of Cyber Security and Network Research Group at the College of Information and Communication Technologies of the University of Dar es Salaam.

He has several years experience and strong complementary background in information security focusing on cryptographic techniques, applications and management. He has conducted several workshops and training in Information security management. He has accumulated proven organization, coordination and problem solving skills. He is committed to high ethical standards in professionalism and competence.

### **PETER KISSA BAZIWE**

Peter is a Certified Information systems Auditor and Security professional. He has over 16 years' experience in Information Technology at International and Local level. He specializes in Block chain and Artificial Intelligence technologies, PCI- DSS compliance, security audits and cyber-forensics. He is the Technical Lead Information Security and Compliance at 4payAfrica.

Since his graduation from Brunel University, Peter has spent time conducting Wireless penetration testing on RFID and 802.11 and 16 networks. He worked with Arhont Security Ltd (UK) as Wireless Consultant in charge of implementation and securing WiFi and wireless mesh networks

### **JACOB MTUI**

Jacob J. Mtui is a seasoned ICT expert in the country who holds Masters degree from Delft Technical University in the Netherlands. He has been in the Tanzania industry for more than 20 years. Jacob has acquired experiences in major ICT related projects both local and abroad. His experience covers most aspects of ICT Infrastructure, Artificial Intelligence, systems management, control and Maintenance.

Mtui is well respected in his work on penetration testing and network security auditing.



## **GILBERT RURONONA**

A Masters degree in Computational Science and Engineering (MCSE) graduated from the Dar es Salaam Institute of Technology (DIT). Among other things, Gilbert concentrated on studies related to examining (auditing) of mobile phone apps.

Ruronona graduated at the University of Dar es Salaam in year 2008 with an award of BSc. In Electronic Science and Communications. He attended numerous trainings including Intelligent Network Administration and Maintenance in Nairobi Kenya and Uniform Voucher Center (UVC) System Management and Maintenance in Shengzen China.

Since his graduate from University, Gilbert spent his time with various Mobile Network Operators like Zantel and MIC Tanzania Limited managing Unix and Linux Database Administration (Informix, Oracle and MS SQL server), Samba configuration and Administration and performs Network administration and security.

## **AARSC LTD's Distinguishing Strength and Capability**

### ***Reverse Engineering and Cryptanalysis***

We can study any software or ICT system and re-establish how it was made. This section is highly useful in situations where cyber espionage and cyber warfare are of concern. It includes detecting all aspects of cyber spying on financial information systems.

## FUNCTIONAL ALLIANCES

AARSC is having strategic association with the following organizations for their technical support, vast product range to collectively meet the complete spectrum of customer requirements, while simplifying the engagement model. They all blend together to make us a unique total solutions company. They are:



The company was founded in year 2008 in Germany, with the mission of providing first-class cyber solutions and knowledge for successful operations against organized crime.

FINFISHER has a state of the art hacking training laboratory that is used for practical during training sessions.

For more information, please visit <https://finfisher.com/FinFisher/>



With her global Hq in 131, Obafemi Awolowo Way, Alausa, 100212, Ikeja, Lagos – Nigeria, SMSAM Systems is a leading Cyber Security Systems Integrator and the Trusted Security Partner for many of Africa's largest financial services companies and businesses, you work for an innovative developer of intelligence-led security solutions.

For more information, please visit <https://www.smsam.net/>

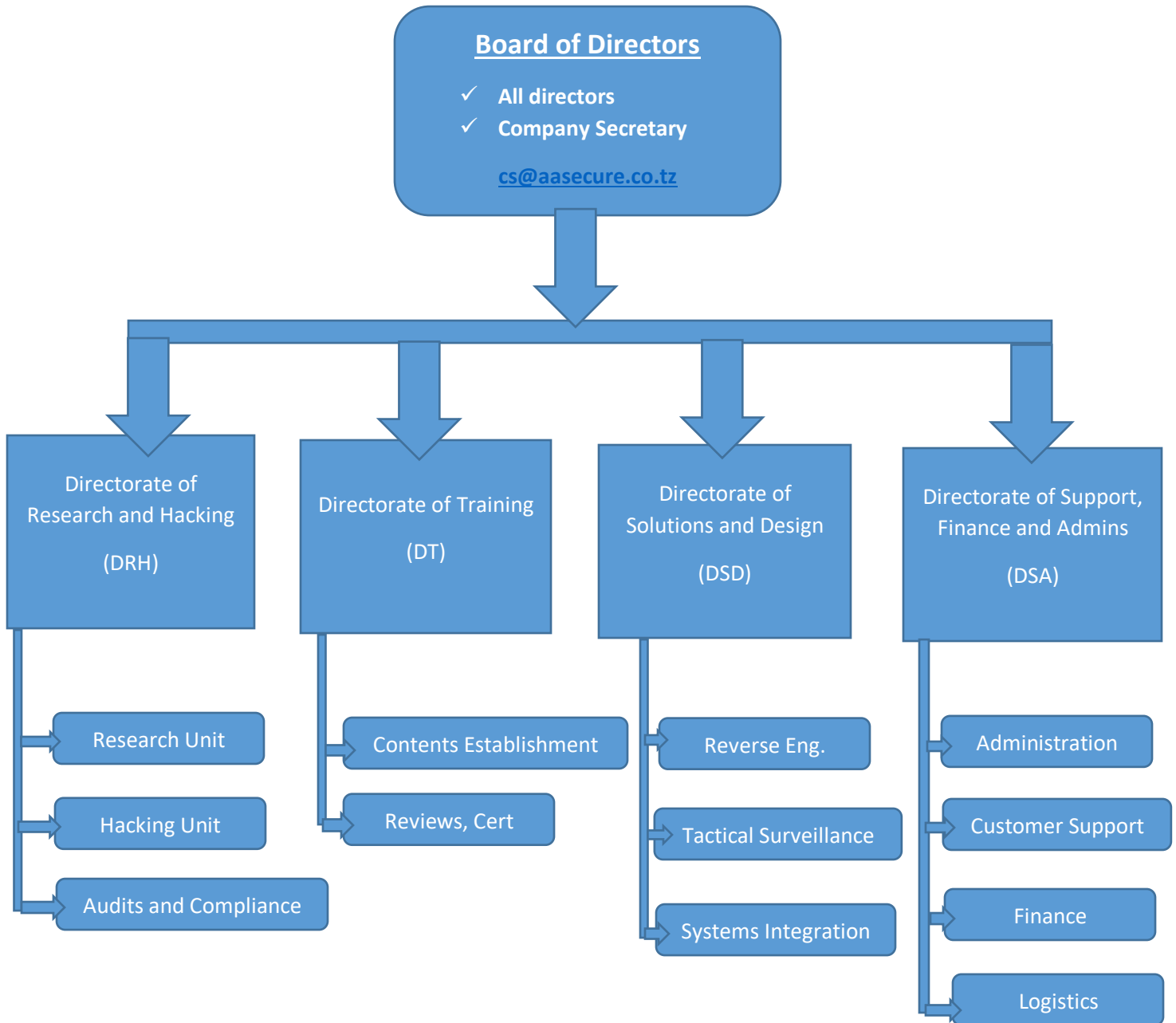


Founded in year 1990, Gamma Group and Gamma TSE conducts in-house developments and strategic partnerships with many leading security companies including AARSC LTD. It provides government agencies with customized solutions based on their national security requirements.

Gamma also provides first-class security training services to governments and related organizations worldwide. Training cover the whole sphere of surveillance, monitoring and OS Intelligence

For more information, please visit <https://www.gammagroup.com/>

## MANAGEMENT STRUCTURE



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