

# CURRICULUM VITAE

## **Executive Summary**

Dr. David King Boison is a consultant, adjunct lecturer at Ghana Technology University College (GTUC), Ghana and Methodist University College, Accra Ghana and former IT Manager of Ghana Ports and Harbours Authority (GPHA). As a process improvement and automation consultant, he has for the past Six years, been responsible for providing leadership in process improvement and automation at Ghana Ports and Harbours Authority (from 2013 – January 2017). From the strategic point of view, he brings to the fore a strategic fit in business strategy and IT strategy, thus driving business vision with technology. From the IT policy perspective, he has been involved in the formulation of policies to support the implementation of new systems. With a strong research background, he is deeply involved in IT research with a high interest in optimization, simulation and big data analytics. He has extensive experience in IT and corporate strategy; overseeing effective implementation of IT systems to achieve business objectives. Dr. Boison has been involved in consultancy works in the areas of business process remodeling, strategic planning, critical and analytical approach to solving problems, digitization of business process, business simulation and IT projects implementation. He has also done some consultancy works for Ghana Institute of Freight Forwarders in 2018 in the area of Port strategy and process improvements and committee for Paperless Port Process commissioned by the Vice President in 2017 on Roadmap for Paperless Port Process. Dr. Boison has also organized 8 seminars so far on research methods, strategic planning, digitizing business process, critical and logical thinking among others.

In addition to IT specialization, Dr. Boison is an expert in supply chain management with specific focus in the maritime industry. In this discipline, he develops continual improvement strategies such as optimization and simulation models to improve the current state of business to a desired future state. These strategies have been deployed in GPHA to reduce process time leading to reduction of cost by 25% in the implementation of electronic port projects. In project management, he has handled 10 major IT projects (2012 to 2017). At Ghana Technology University, he is currently a lecturer on Coventry, CASS Europe, Standfordshire and University of West Scotland transnational (Masters and PhD) programs in: supply-chain management, Database Management, Business Simulation, Decision Support Systems, Operations Management, Procurement Management, Facility Management and System Design, Lean Operations, Quality and Six sigma, Project Management, International Supply-Chain Management, Supply Chain Planning, Risk Management, Strategic Management and Research Methods. Dr. Boison brings to the classroom practical examples, which easily connect students to industry. Dr. Boison has been a Panel Member for both Master's and PhD public defense viva at Ghana Technology University for its transnational programs.

Dr. Boison holds a BBA in Accounting with first Class Honors, Msc in Supply Management with Distinction (Best Student) and Msc in Management Information System with Distinction. He holds a Doctorate Degree in Business Administration, Supply Chain Management option with CASS Europe France Business School. He was the concept developer and implementer for the Port Automation System (now the Paperless Port System) at Ghana Ports and Harbours Authority (June 2012- January 2017) and also a Prince2 Project Practitioner.

## **ADDRESSES AND TELEPHONE NUMBERS**

Home Address : P49/50 Community 25, Tema.  
E-mails : kingdavboison@gmail.com  
Cell Phone : +233 (0)207696296

## **PERSONAL DATA**

Title : Dr.  
Surname : Boison  
First Name(s) : David King  
Profession : Consultant and Lecturer  
Nationality : Ghanaian  
Sex : Male  
Marital Status : Married  
Date of Birth : 10<sup>th</sup> November 1975  
Driver's License : Yes  
Official Language : English  
Other Language(s) : English (Good) and Twi (Native)  
Criminal Offences : None  
Health : Excellent

## EMPLOYMENT BACKGROUND

**Company** : **Ghana Ports and Harbours Authority**  
**Date** : **March 2015 to December 2017**  
**Position** : **IT Manager**

## PROJECTS EXECUTED

- **Project Manager - MS Dynamics AX 2012R3 Standard Module (ERP)**  
Finance module, Human Resource and Payroll module, Trade and Logistics module and Project Accounting module. Cost savings of 20% of A4 papers and processing time of invoices and payment reduce by 65%.
- **Project Manager – Electronic Payment System.**  
Customised Mobile Application for GPHA, which supports all electronic payment platforms. Enterprise Service Bus for integration of Terminal Operating System, Dynamics AX 2012 R3, Autoship Identification System among others. Cost saving 50% on fuel from patrol boats.
- **Project Manager – Dynamics Property Management Implementation**  
Management and administration of GPHA Estates from Marketing, Quotation, Reservation, Agreements, Billings, Payments, Renewals to Closure of Documentation. Cost saving up to 25% of total revenue from leasing property to customers
- **Project Manager - Terminal Operating System.**  
Yard Operations, Gate Operations, Voyage Planning, Mobile Applications, Harbour Management, Vehicle Booking System, Invoicing and Yard Health and Safety. KPIs in relation to vessel turnaround time, dwell time of cargo, moves per hour of machine to ascertain machine utilisation, terminal space utilisation. Process time of invoice after vessel operations reduced by 85%.
- **Project Manager – Dynamics Hospital Management System.**  
Maintain Patient Data, Accommodation Automation, Automate Patient Transactions, and Enhanced Invoicing among others. 80% milestone completed.
- **Project Manager - Auto ship Identification System (AIS)**  
Vessel Tracking (Vessel positioning, Real time, and Hybrid representation), Event Viewing (Warning icons for operator, warning on the map, Event location on the map, Integration with operation record), Operator Support (Arrival to port zone, exit from port zone, Anchorage start, Anchorage finish, Berthing and Unberthing). 65% milestone completed.
- **Project Manager – Electronic Vessel Booking System.**  
Booking of vessel online using pre-set parameters such as Gross Tonnage, Length Overall, Invoicing and Berth Allocation. Booking time for berth allocation reduced by 85%. Every vessel agent can book for vessel anywhere and everywhere on the globe.
- **Project Manager – Time and Attendant System.**

Automation of Attendance using Biometric Devices. Calculation of Overtime for Salary preparation. The system integrates into the Dynamics AX 2012 R3. Cost of overtime reduce by 45%.

### **SPECIFIC JOB FUNCTIONS**

- i. Develop, maintain and review information and management systems of GPHA; based on approved format rules and changing operating requirements.
- ii. Provide assistance to departments in developing and preparing information on management systems.
- iii. Develop management accountability and information systems that monitor the key factors for all departmental functions.
- iv. Monitor and analyse the impact of utilization of information systems and management performance.
- v. Monitor effectiveness of computer processes and database in place to maintain, update and archive information on the elements of the management systems and recommend required changes.
- vi. Ensure that Enterprise Resource Planning (ERP) system is functional to expectation and recommends any other measures that will sustain its viability.
- vii. Provide overall coordination in the efficient running on the ERP system of the Authority.
- viii. Interface with Ministry of Road and Transport and the Port Community.
- ix. Advise management about IT technology trends and implement process improvement systems in the Authority.
- x. Supervise the maintenance of all existing systems Implement strategies to ensure adequate security of IT systems and its availability all year round.
- xi. Supervise the implementation of the electronic port system of GPHA.

### **CURRENT EMPLOYER:**

#### **GHANA TECHNOLOGY UNIVERSITY**

**(Part Time)**

**Date** : **2014 – to date**

**Position** : **Adjunct Lectures**

**Subjects** : (Masters and PhD) Lean Operations, International Supply Chain Management, Global Supply Chain Management, Supply Chain Planning and Management, Risk Management, Operations Management, Project Management, Quality and Six Sigma, Operations Management, Strategic Management, Facility Management and System Design, Procurement Management, Supply Chain Optimization and Measurements Issues in Research, Quantitative and Qualitative Research and Analysis using Advance Excel and SPSS in Research.

## SPECIFIC COURSE CONTENTS:

- ✓ **Lean Operations:** Current Industrial requirements, practitioner thinking, people issues, Toyota production systems, Ford production systems, Waste identification and elimination techniques, 7+ wastes, Pareto, Product flow Analysis, String diagrams, Cluster Analysis, Non value added analysis, Single minute exchange of die (SMED), Line balancing, Yamazumi boards, 5S, Poke yoke, Kanban visual controls, Value stream mapping Standardized work, Manufacturing cell designs and Production development process (PDP).
- ✓ **International Supply Chain Management:** Defining supply chain and supply chain management, Supply chain strategy and organizational strategy, Evolving competitive advantage, Different supply chain structures, Development of international supply chains, Service supply chains, Culture, Power, Knowledge management, People processes, Impact of globalization, The role of low cost economies and Current challenges.
- ✓ **Risk Management:** Introduction to risk, uncertainty and risk management, Risk attitudes and appetites of individuals, groups, organizations and society, Risk management in the workplace: enterprise, health & safety, finance and projects, Government and legislative influences, Definitions and frameworks for strategic risk management, Qualitative risk assessment methods, Quantitative risk analysis and Monte Carlo simulation, Modeling tools and techniques to assist in decision making under uncertainty, Cost-benefit analyses and investment decision-making, future risks, discounted cash flow (NPV) and limitation of risk management.
- ✓ **Operations Management:** Operations strategy, Product and service design, Process design and analysis, Facility management aggregate planning and scheduling, Operation decision tools, Forecasting, Material inventory management, Lean production system, Quality management and Six sigma, Project management and supply chain management.
- ✓ **Quality and Six sigma:** The tools and techniques, systems and management and leadership styles applicable to a Total Quality Management environment, to review and critical appraise of quality, inspection, quality control, quality assurance and total quality management, Culture and leadership aspects and the influence of the quality gurus and their contribution to quality, Quality and Six sigma implementation roadmap, ISO 9000, ISO 14000 and management systems.
- ✓ **Global Operations Strategy:** Operational planning and execution, planning for market entry, global supply chain strategy, import and export intermediaries, Supplier and distributor contracts, Service networks and competitive strategies, Alternative methods of market entry, Foreign direct investment and competitive advantages.
- ✓ **Global Supply Chain Management:** Approaches to strategic management, Relationship between corporate strategy and purchasing and supply chain management strategy, Strategic management of quality and material flow, Strategic management of costs and added value, Strategic management of supplier relationships, Developments in strategic purchasing and supply chain management practices in global business

## PREVIOUS EMPLOYERS

### GHANA PORTS AND HARBOURS AUTHORITY

**Date:** : September 2013 to March 2015

**Position:** Principal IT Officer

## MAIN JOB FUNCTIONS

- ✓ **Project Manager -Optical Character Recognition (OCR) Implementation**  
Captures vehicle number and container details. Track and trace containers in and out of the port. Damage inspection capabilities to ensure acceptance of liability regarding any damage that occurs at any stage of the entry and exit. Litigation with shipping lines reduced by 65%.
- ✓ **Project Manager – Electronic Gate System Implementation**  
Monitors pedestrian's entry and exit into the port as well as vehicle's entry and exit into the port. Biometric devices installed on Turnstiles and boom barrier with OCR cameras to capture vehicle number plate before entry or before exit into the port. ISPS complaint and stowaway reduced up to 80%. Cargo theft reduced by 70%.
- ✓ **Project Team Leader - ISO 9001-2008 Implementation**  
Document control and management. Processes and procedures documented for both Tema and Takoradi ports.

### GHANA PORTS AND HARBOURS AUTHORITY

**POSITION:** CORPORATE STRATEGIST

## MAIN JOB FUNCTIONS

- ✓ Documentation of current state service delivery processes and procedures of Tema and Takoradi Port.
- ✓ Documentation of future state service delivery processes and procedures of Tema and Takoradi Port.
- ✓ Training of IT Staff on process improvement.
- ✓ Monitoring and controlling of Tema Port strategic plan

## **SPEARHEARDNET LIMITED.**

**Date** : **March 2015 to June 2016**

**Position** : **Consultant**

### **MAIN JOB FUNCTIONS**

- ❖ Developed strategies for business sustainability.
- ❖ Developed of Human Resource capacity planning.
- ❖ Implemented Enterprise Risk Management
- ❖ Drafting of organizational policy document

## **DREAMOVAL LIMITED.**

**Date** : **March 2013 to June 2013**

**Position** : **Consultant**

### **MAIN JOB FUNCTIONS**

- ❖ Developing strategies for business sustainability
- ❖ Policy advisory on business sustainability
- ❖ Drafting of organizational policy document

## **SARDASON INTERNATIONAL AGENCY**

**Date** : **March 2008 to Date**

**Position** : **Chief Executive Office**

### **MAIN JOB FUNCTIONS**

Consultancy services such as Human Resource Recruitment and Placement, Digital Marketing, Supply Chain Management and Information Technology. Training in Soft Skills and Hard Skills.

### **EDUCATIONAL QUALIFICATIONS**

#### **University Attended**

**University of CASS Europe.**

**Degree** : **Doctorate Degree (PhD) in Business Administration  
(Expert Simulation and Optimization  
Models in Maritime Supply Chain Process)**

**Year** : **May 2013 to November 2017**

**Research Topic** : **Optimizing the use of berthing space to reduce the clearance  
time during Importation- A case study of GPHA**

#### **University Attended**

**Coventry University UK.**

**Degree** : **Msc. Management Information Systems (Specialized in**

System Modelling)- **Distinction**  
 Year : May 2012 – September 2014  
 Major Courses : (a) Decision Support Systems and Business Intelligence  
 (b) Information System/Information Technology Procurement  
 (c) Database Management  
 (d) Information System Change Management  
 (e) Business Simulation  
 (f) Financial Analysis for Managers  
 (g) Corporate Strategy  
 (h) M-Commerce  
 (i) System Development  
 Thesis : Optimizing the use of port facilities: Simulation of the transfer of cargo from Meridian Port Service to Golden Jubilee Terminal.

**University Attended** : **Coventry University UK.**  
 Degree : MSc. Supply Chain Management (Specialized in Optimization) – **Distinction**  
 Major Courses : (a) Project Management  
 (b) Procurement Management  
 (c) Supply Chain Management  
 (d) Lean Operations  
 (e) Quality and Six sigma  
 (f) Contract Management  
 (h) Corporate Strategy  
 Year : Jan, 2011– May, 2012  
 Thesis : Applying Lean Technique in the Clearance of Cargo in Tema Port.

**University Attended** : **Methodist University College.**  
 Degree : BBA. Accounting – 1<sup>st</sup> Class Honors  
 Year : June 2006 – June 2010  
 Major Courses : (a) Financial Accounting  
 (b) Business Finance  
 (c) International Marketing  
 (d) Conflict Management  
 (e) Financial Markets  
 (f) Collective Bargaining Agreement  
 (g) Strategic Management  
 Thesis : Computerization of accounting systems in Ghana Ports and Harbours Authority

## PROFESSIONAL CERTIFICATION

Year	
2016	Dynamics Property Management Module –Functional and Technical
2016	Dynamics Enterprise Asset Module
2016	Arena Simulation
2016	Dynamics Hospital Management System
2015	Microsoft Suresteps
2015	Certified Prince2 Project Management Practitioner
2015	MS Dynamics 2012 R3 Technical Training



2015	MS Dynamics 2012 R3 Functional - Finance, Human Resource and Payroll, Trade and Logistics and Project Accounting.
2014	Jade Master Terminal Operating System

### **SEMINARS ORGANISED**

- ✓ Critical and Analytical Thinking in Solving Business Problem – November 2017
- ✓ Developing Research Topic, Research Problem and Research Objectives – January 2018
- ✓ Developing Research Methodology – March 2018
- ✓ Developing a Comprehensive Literature Review – April 2018
- ✓ Developing Research Proposal – May 2018
- ✓ Developing an Operational Business Plan and an Invoice Quotation- June 2018
- ✓ Developing an Operational Business Plan and an Invoice Quotation- October 2018
- ✓ Business Plan for GIFF January 2018

### **SEMINARS TAUGHT**

- ✓ Measurement Issues in Research for PhD Students at Graduate, School at the Graduate School Ghana Technology University
- ✓ Quantitative Data Analysis Using SPSS and Advance Excel at the Graduate School, Ghana Technology University
- ✓ Measurement Issues in Research for PhD at the Graduate School, Ghana Technology University
- ✓ Qualitative Data Analysis Using Nvivo Tools at the Graduate School, Ghana Technology University

### **PUBLIC LECTURES DELIVERED**

- ✓ Change Management @ Church of Christ – Afienva Branch -2018
- ✓ Change Management @ Church of Christ – Official Town Branch-2018
- ✓ Leveraging on Technology for Church Growth @ Launch of Church of Christ Web Portal- 2018.
- ✓ “Internet of Things” at Annual General Meeting of Ghana Institute of Freight Forwarders (GIFF)
- ✓ Community 8 & 9 Church of Christ “What is a Job and How do you secure one”
- ✓ Joint Lectureship at Winneba Church of Christ “Change Management” at October, 2018
- ✓ Joint Lectureship at Winneba Church of Christ “Preparing a Business Plan” at December, 2018
- ✓ Lebanon Church of Christ “Facing Challenges as a Christian” March, 2019.

### **OTHER RESPONSIBILITIES**

- Member of Board for Fund Raising for Ghana Technology University from 2014-2016.
- Member of the Technical Committee for National Single Window from 2015-2016.
- Member of the Marendra Project Team for Autoship Identification System (AIS) Implementation for selected ports in West Africa Sub-region 2015-2016
- Representative for GPHA for Ghana National Single Window 2015-2017

- Representative for GPHA on the Marendra West and Central Africa 2015-2016
- Member of Paperless Project Committee setup by the Vice President on 26<sup>th</sup> May 2017.
- Panel Member of the Doctoral Mock VIVA at Ghana Technology University March,2019.

## RESEARCH INTERESTS

- ✓ Port Digitization
- ✓ Maritime and Port Supply Chain Management
- ✓ Big Data Analytics
- ✓ Procurement Management
- ✓ Maritime and Port Security
- ✓ Project Management
- ✓ Process improvements
- ✓ Modeling and Simulation
- ✓ Information Technology / Information System Project Management
- ✓ Lean and Six sigma –Optimization
- ✓ Information Technology / Information System Change Management
- ✓ Business Simulation and System Modeling
- ✓ System Analysis and Design
- ✓ System Development.

## WORKSHOP ORGANISED

1. Developing a winning research Proposal – October 2017 for Senior Managers
2. Developing a Comprehensive Literature Review – November 2017 for Msc and MBA Students
3. Developing a workable Methodology – February 2018 for Msc and PhD Students
4. Developing an Operational Business Plan and an Invoice Quotation – June 2018 for Ghana Institute of Freight Forwarders
5. Developing an Operational Business Plan and an Invoice Quotation – August 2018 for Ghana Institute of Freight Forwarders
6. Mystery Shopping Exercise for Greenline Logistics July 2018
7. Business Remodeling for Greenline Logistics (Strategic Planning, HR Restructuring, and Research & Development and Digital Marketing- September 2018

## PUBLICATIONS

- ✓ 8th Global Business Conference, Milan-Italy, 2017: Optimizing the Use of Sea-Port Berthing Space: A Case Study of Tema Port in Ghana
- ✓ Assessing the Factors Influencing Sales Performance and Siting of a Fuel Station Project: Study of Spintex road Accra-Ghana – October, 2018. International Journal of Social Science and Humanities Research.
- ✓ Assessing the Impact of Outsourcing on Organizational Performance: a case of Vodafone Ghana- October, 2018. International Journal of Social Science and Humanities Research.

- ✓ A Conceptual Model for Effective and Efficient Implementation of Ghana's public procurement Act 2003(663) as amended by Act (914) – March, 2019. International Journal of Management and Commerce Innovations.
- ✓ Application of a Lean to improve customer lead-time in the fashion industry in Ghana: A case study of Royalty by Nanasei- March, 2019. International Journal of Engineering Research and Reviews
- ✓ Shipshape seaport operations- Optimizing berth allocation is a crucial part of the loading and unloading process at Ghana's Tema Port and every seaport- March, 2019. ORMS Today Informs Membership Magazine.
- ✓ Assessing Supply Chain Vulnerabilities in Event Management in the Media Industry in Ghana- A Case of a Multimedia Station. International Journal of Management and Commerce Innovations, Vol 7, Issue 1. April 2019-September, 2019.
- ✓ Assessing Supply Chain Vulnerabilities in Event Management in the Media Industry in Ghana- A Case of a Multimedia Station. International Journal of Management and Commerce Innovations, Vol 7, Issue 1. April 2019-September, 2019.
- ✓ Examining the Management of Risk Issues in Procurement: A Case Study of Ghana Technology University College. International Journal of Management and Commerce Innovations, Vol 7, Issue 1. April 2019-September, 2019.
- ✓ The Effect of Lean Operations in Manufacturing on Firm Performance: The Case of Manufacturing Firms in Accra. International Journal of Management and Commerce Innovations, Vol 7, Issue 2. April 2019-September, 2019.

## **COMPUTER LITERACY**

- ✓ Microsoft Dynamics
- ✓ Jade Master Terminal
- ✓ Microsoft Project
- ✓ Microsoft Visio
- ✓ Microsoft Office
- ✓ Monte Carlo Simulation
- ✓ Adobe PhotoShop Freehand
- ✓ Advance Excel
- ✓ Arena Simulation
- ✓ Microsoft Sure steps

## **Supervision of Thesis/Dissertation**

- Supervision for Coventry University UK/Ghana Technology University College Supply Chain master's students from 2015-2019.
- Supervision for University of West Scotland UK/Ghana Technology University College Project Management master's students from 2015-2019.
- Supervision for CASS Europe France/Ghana Technology University College from operations and supply chain master's students from 2015-2018.
- Supervision for Anhalt Germany /Ghana Technology University College MBA International master's students from 2015-2016.

- Supervision for CASS Europe France/Ghana Technology University College from January 2019 to date.

### Panel Member

- Panel Member for the PhD Public Viva Examinations of the CASS Europe France/Ghana Technology University College on 19<sup>th</sup> March, 2019.
- Panel Member for the Masters Public Viva Examinations of the CASS Europe France/Ghana Technology University College from 2015-2018.
- Panel Member for the Masters Public Viva Examinations of Coventry University UK/Ghana Technology University College from 2015-2019.
- Panel Member for the Masters Public Viva Examinations of Anhalt Germany /Ghana Technology University College from 2015-2016.
- Panel Member for the Masters Public Viva Examinations of University of West Scotland UK/Ghana Technology University College from 2016-2019.

### HOBBIES

- ✓ Football
- ✓ Volley
- ✓ Reading.

### AWARDS

#### Year

2017	Best Port in Management Information System in West and Central Africa
2017	Best Paper in the Category of World Review of Business Research <i>Optimizing the Use of Sea-Port Berthing Space: A Case Study of Tema Port in Ghana</i>
2016	Best Enterprise in Africa - GPHA
2016	Best Transport Port in Africa and Asia –GPHA

### REFEREES

Name	:	Richard A.Y. Anamoo Former Director General- Ghana Ports and Harbours Authority Ghana-Tema
Tel	:	+233 (0) 548 433 356
e-mail	:	raynamoo@gmail.com
Name	:	Iddrisu Awudu, Ph.D. Assistant Professor of Management Quinnipiac University

275 Mt. Carmel Avenue  
Hamden, Ct.06518

Tel : 203-582-7906  
e-mail : [iddrisu.awudu@quinnipiac.edu](mailto:iddrisu.awudu@quinnipiac.edu)



**Dr. David King Boison – Presenting Award to Mr. Paul Asare Ansah – Director General GPHA in 2017**



**Dr. David King Boison (behind the vice President) with the Vice President- Mahamudu Bawumia and the Port Efficiency Committee who developed the Roadmap for the Port Paperless Implementation in 2017**