

CURRICULUM VITAE

Name: Dr. -Ing. Alexander Boakye Marful
Profession: Architect / Infrastructure Planner
Date of Birth: 1974
Nationality: Ghanaian
Membership in Professional Associations:

- o Member of Royal Institute of British Architects (**RIBA**)
- o Member, Ghana Institute of Architects (**GIA**)
- o Member of the African Good Governance Network (**AGGN**)
- o Member of International Society of City and Regional Planners (**ISOCARP**)

Detailed Description of Tasks:

Key Qualifications:

Dr. -Ing. Alexander Boakye Marful is an Architect and Infrastructure Planner with 8 years of professional experience. He completed his PhD at the University of Stuttgart, Germany, in Energy Efficient City Planning. Before the PhD, he graduated from the Master of Infrastructure Planning course where he obtained extra insight into the integrated and regional planning. He is Currently a Lecturer in Architecture at the Kwame Nkrumah University of Science and Technology, Kumasi Ghana and also Principal consultant at SPAYIS Architecture, Planning and Engineering Ltd. Prior to that he was a Consultant as Infrastructure Planning for Fichtner GmbH & Co. KG where he responsible for project development, master planning, analysis and management of large Solar Power Plants being financed by the World Bank, European Union and other reputable financial institutions. Prior to joining Fichtner GmbH & Co KG, he had the opportunity to demonstrate his ability to translate his architectonic ideas and concepts into reality, on different projects at the Predios Architects and Urban Designers and Ablakwa Development Ltd. He also possesses good command over the usage of various 3D modelling and visualization software as well some architectural drafting and analysis tools like AutoCAD and Arc View GIS software which are applied to land suitability analysis and modelling for efficient land-use planning. In addition, he has received through various master-planning projects, knowledge in communities systems and development in the areas of urbanism principles, context evaluation, regeneration strategies, and environmental & social impact assessment. He has working experience in Ghana, Germany, Kuwait, Uganda, Sudan, Malawi, South Africa and USA. He has special interest in Energy Efficient Community Planning and Development as well as Green Architecture and Buildings.

Education:

2008 - 2012	University of Stuttgart, Germany Topic: GREENING COMMUNITIES IN TROPICAL SUB-SAHARAN AFRICA, "A Research on the Dynamics of Developing New Juaben Municipal Area in Ghana into an Ecologically-Responsive and Energy-Efficient Community" with Prof. Dr.-Ing. Franz Pesch Doctorate (Dr.-Ing.) in City Planning
2003 – 2005	University Stuttgart, Germany (Master of Infrastructure Planning)
2001 – 2002	Kwame Nkrumah University of Science and Technology, Kumasi-Ghana (Post Graduate Dip. Architecture)
1996 – 2000	Kwame Nkrumah University of Science and Technology, Kumasi-Ghana [Bsc. (Hons) Architecture]

Further Training/Software Knowledge:

AutoCAD Architecture 2010, AutoCAD Civil 3D, ArcView GIS 3.2 and ArcGIS 11.0, and AccuRender 5, Microsoft Office Applications (word, excel, powerpoint, access), MS Project 2007, Corel Draw 15, Adobe Photoshop, Macromedia Fireworks, Illustrator, Adobe Indesign, ECOTECT 3.2,

Awards:

- 2003-2005 Study scholarship for a postgraduate course with relevance to developing countries**
Received the German Academic Exchange Services (DAAD) Scholarship to pursue Masters in Infrastructure Planning at the University of Stuttgart
- 2008-2012 Research grant for doctoral candidates and young academics and scientists**
Received the German Academic Exchange Services (DAAD) Scholarship to conduct PhD research at the University of Stuttgart
- 2010 African Good Governance Network (AGGN) Grant for Leadership Training**
Received the grant to be a member of the AGGN and participate in its yearly leadership training. AGGN is a group of highly qualified individuals who have studied in Germany and yearly 10 students are selected after rigorous interview by the DAAD to join the network.
- 2014 Selected as a mentor for the 2014 Urban Transformations Mentor & Student Research Lab**
Common Initiative of ISOCARP and the members of Gdańsk University of Technology student research club - LEM-ur. Results of the research would be part of an exhibition for ISOCARP 2014 congress published in fall/winter 2014.

Employment Record:

- **2016-Present Kwame Nkrumah University of Science and Technology, Kumasi, Ghana**
 - **Lecturer in Architecture**
 - Chairman of the Publication committee for Architecture Department
 - Studio Master of Architecture I
 - Lecturer for Structures for Architects
 - Deputy Chairman for Commonwealth Association of Architects accreditation committee
- **2014-Present Spaysis Architecture, Planning and Engineering Ltd, Ghana**
 - **Principal Architect and Infrastructure Planner**
Team leader for the following Projects Since July 2014
 - Preparation of the Feasibility Studies for Anko Solar Lanterns Assembling Plant (ASLAP-1) Project , Tema-Ghana
 - Infrastructure Planning and Project Management Services for Tema Bridge Power Project
 - Training and Capacity Building For Architectural Practices- Archetype, Accra-Ghana
 - Development of Curriculum and Course Structure for Two master Programs for Kwame Nkrumah University of Science and Technology- Msc Infrastructure Planning for the Tropic and Msc. City Development for the Tropics and sub-Tropics
 - Technical Support For SOLENGCO-Balance Of Plant, for ISCC Plant in Kuwait
 - Technical Support For SOLENGCO-Site Evaluation And Selection, Brazil
 - Landscapes and Initiatives for Neighbourhood and Community Revival (LaNCoR+) for urban sub-Saharan Africa -The Case Apiadu, Kumasi-Ghana
 - Development of Vocational Institute in collaboration with Catholic Technical Institute (CTI) with Special Focus on:
 - Bamboo Design and Construction Technicians
 - Ceramic and Clay Art Production Technicians
 - Packaging and Product Branding Technicians
 - Social and Community Workers Technicians
 - Cottage Industry for Ceramic and Pottery Products
 - Christu Kinder Paradise:
 - Outdoor and indoor Playground for 500 Kids of age groups 0-3, 4-8 and 9-14
 - Outdoor psychomotor socio-cultural models depicting all important cultural edifices in the 10 regions of Ghana - Theme: Ghana @ a Glance
 - Development of Playing equipments for Kids with Recycled materials;
 - Soft Project Deliverables

- Development of Neighbourhood Cohesion Instrument;
 - Formation of Self-Help Clubs and Groups like; LaNCoR-Mums, LaN-CoR-Kids, LaNCoR-Scouts, LaNCoR-Managers;
 - Organisation of Art and Craft Workshops for Kids and Families;
 - Traditional choreography session for young talents;
 - Organisation of Design Competition for Architecture and Art Students from Kwame Nkrumah Science and Technology for Playing Equipments from recycled materials and layout concepts;
 - Development of games for the families and teams of neighbours.
 - Organisation of Counselling and Workshop sessions on Health and Child Care issues
- Residence of Mr. Johnson Oforikuma at East Legon, Accra
 - Remodeling of the St. Anthony Catholic Church at Deduako, Kumasi-Ghana
 - Preparation of Master plan and Architectural Design and Detailing for King Edward School, Accra-Ghana
 - Preparation of Master plan and Architectural Design and Detailing for Brain Birds Academy, Accra-Ghana
 - Preparation of Master plan and Architectural Design and Detailing for 5-Storey Residential Complex and Commercial Centre for Peak Impact Limited at Dome, Accra-Ghana
 - Design and Detailing of The Archbishop Anokye Libray Complex
 - Preparation of the Master plan, Architectural Designs and Detailing for Pharmaceutical Plant for Mykayla Pharmaceuticals at Sewuah, Kumasi-Ghana
 - **DEEPER LIFE CHRISTIAN MINISTRIES-GHANA MOUNT OF TRANSFIGURATION CAMP GROUND (MoTCaG) PROJECT**
 - Work Package One (WP-1): Design , Detailing and Supervision of the development of the Main Church Auditorium at the Mount of Transfiguration Camp Grounds (MoTCaG)-Chapel ; *Capacity- 25,000 persons*
 - Work Package Two (WP-2): Master planning of Mount of Transfiguration Camp Grounds (MoTCaG) at Brofoyedu in the Botsomtwi Atwima Kwanwoma District-Ashanti Region; *Total Land Area- 131.00 acres*
 - Work Package Three (WP-3): Design and Detailing of Ancilliary Facilities and Infra-structures for MoTCaG at Brofoyedu; *Total Land Area- 131.00 acres*

2012-2014 FICHTNER GmbH Co.KG:



- **Infrastructure Planner**

-Preparation of General Time Schedule and Assisting in Pre-Qualification of Bidders for 200MW Power Plant for Stadtwerk , Kiel, Germany.

-Project Management and Organisation (PMO) activities including document control for Desalination Plant (Az-Zour North Phase 1 - IWPP) for Az-Zour Oula Power and Water Company K.S.C,Kuwait.

-Preparation of Infrastructure and Master plan for a 2000 MW Renewable Energy Park for Kuwait Institute of Scientific Research, Kuwait

-Project Development for the Consultancy Services for Reviewing of the Sudan Grid Code, T&D specifications and constructing generation general specifications for the Ministry of Water Resources & Electricity - Electricity Regulatory Authority Republic of Sudan

-Project Development and preparation for the Study of Electricity Tariff Restructuring and Cost Financial Model for the Ministry of Water Resources and Electricity (WRE) and the Electricity Regulatory Authority (ERA) of Sudan

-Project Development and preparation for the Consultant Services Specifications for ESCOM Management Information System (MIS) for the Millenium Challenge Account(MCA)- Malawi

-Procurement of Consultant Services for the Malawi Power Sector Tariff, Regulatory, and Institutional Improvement Assignment for the Millenium Challenge Account(MCA)- Malawi

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- **2010-2013 Spaysis Architecture, Planning and Engineering Ltd**
- **Master Planning and Architectural Design and Detailing, Ghana**
 - Preparation of Master plan and Architectural Design and Detailing for King Edward School, Accra-Ghana
 - Preparation of Master plan and Architectural Design and Detailing for Brain Birds Academy, Accra-Ghana
 - Preparation of Master plan and Architectural Design and Detailing for 5-Storey Residential Complex and Commercial Centre for Peak Impact Limited at Dome, Accra-Ghana
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- **2009-2012 FICHTNER GmbH Co.KG (Fichtner Solar GmbH)**
- **Infrastructure Planner**
 - Preparation of Infrastructure and Master plan for a 2000 MW Renewable Energy Park for Kuwait Institute of Scientific Research
 - Construction, Operation and Maintenance of 150 MW Integrated Solar Combined Cycle Power Plant (ISCC - Kuraymat) in Egypt
 - Feasibility Study for a 200 MW Solar Thermal Power Plant in Botswana
 - Feasibility Study for a 500 MW Solar Thermal Power Plant in Hualapai Valley in Arizona, USA
 - Technical Advisory Report on Concentrating Solar Power (CSP) Outlook & Preliminary Identification of Business Opportunities for Chiyoda Corporation to enter the CSP Business handled computers for data acquisition and evaluation
- **2005-2008 PREDIOS Architects and Urban Designers**
- **Project Architect**
 - Responsible for the development of ecological responsive housing at Larteh –Akuapem for Predios Homes, Accra and design and development of a mango pack house at Somanya & Dodowa for mango farmers associations for TIPCEE, USAID-Accra
 - Project Planner for the Masterplanning of a new Satellite-Community in Aburi, Ghana for the OTU - Brempong of Asona Family, Aburi.
 - Team-leader for the Master planning of the Campus for the Central University College at Miotso, in the Dangme-West District, Accra.
 - Project assistant for the refurbishment and alterations of the City Hotel (5-star hotel), Kumasi for Ghana Libyan Arab Holding Company Ltd, Ghana.
 - Project assistant for the design and construction of a 1300 capacity student hostel for central university college, at Miotso, Dangme-West District Accra.
- **2000-2002 ABLAKWA DEVELOPMENT Ltd**
- **Project Coordinator**
 - Refurbishment & preparation of selected sites for computerization under the budget and public expenditure management systems-PUFMARP (lot 2-greater Accra sites) for ministry of finance of the government of Ghana.
 - Responsible for construction of health centre at Teshie and Old Ningo, remodeling refurbishment of first floor main administration block of Uni-Lever, Tema.
 - Project Architect for the design and build of “woodin” boutique shops at: Sunyani, Koforidua, Cape Coast, Takoradi, Tamale, Agona-Swedru for Ghana Textile and Printing Co.ltd (GTP).
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Social And Community Development Activities Record:

- **2010-2011 African Good Governance Network**
- **Network Coordinator**

- Elected as a Member of African Good Governance Network and appointed in the same Month as the Network coordinator of the Network. This is a Network (now 58 members) promoted by the DAAD for brilliant African Scholars who have studied in Germany and with Former German President Horst Koehler as the Patron.

➤ **2008- to date CLEAN-AFRICA e.V. Stuttgart, Germany**

• **Programmes Director (Volunteer)**

- Volunteering as programmes director of CLEAN-AFRICA e.V. in Stuttgart whilst pursuing my PhD. Currently responsible for;

- Team leader for Development of Integrated Mobile Environmental Awareness Project (IMEAP) in Uganda and Ghana. A software for teaching Kids about Environment and Personal Hygiene was developed
- Preparation of Concept and Project proposal GIZ on the topic: Building Integrated Capacities for Ecosystem Services and Management for African communities (BICESMAC)- The Role of the Ugandan Youth
- Team Leader for Concept, Project proposal and Implementation of Makulubita Integrated Basic School Improvement Project - (MIBSIP 1) in Makulubita, Luwero-District, Uganda

➤ **2003- 2005 University Of Stuttgart, Germany**

• **Class Speaker**

Coordinated the affairs of the students and liaised with the Management of the Institute on matters relevant for the academic-welfare and social-welfare of the Students. I also acted as the Spokesperson of the year group which consisted of 30 students from about 18 different countries around the world.

➤ **2001 Ussherfort Accra, Ghana**

• **Team-Leader in the Student Workshop**

Topic: "Re-Development of Old Accra" organized by UNESCO. The group was responsible for Data collection, Analysis of Data, Synthesizing and -Developing Pragmatic strategies in the fields of Demography, Land-Use, Open Space, Preservation of Historical Sites, Housing, Water Supply Etc. and formulated practical recommendations for the office of UNESCO in Ghana.

➤ **2008 CLEAN-AFRICA Ghana**

• **Country-Coordinator**

Responsible for appraisal of projects submitted by community based organizations, NGOs District and municipal Assemblies for funding from CLEAN-Africa. Also responsible for organization of workshop and training sessions for young professionals from consultancy services in the Built Environment sector, Public Agencies in the framework of sustainable community development.

Research And Publications:

- **Marful, A.B. (2015); SMART INFRASTRUCTURE: Case Study Of Gdynia, Waterfront City; Chapter 3 of Urban Transformations: Towards wiser cities and better living; Gdansk, Poland; ISBN: 978-83-63368-58-6**
- **Marful, A.B. (2014); MASTER PLANNING TO HARNESS THE SUN AND WIND ENERGY: The Case of Shagaya Renewable Energy Master Plan Project, Kuwait .MIPALCON 2014 Proceedings; Stuttgart, Germany.**
- **Marful, A.B. (2014); SMARTING THE CITY OR DEVELOPMENT: the Dilemma of the Post-Oil Countries in sub-Saharan Africa REALCORP 2014 Proceedings; Vienna, Austria; <http://www.corp.at>**
- **Marful, A.B., (2012); GREENING COMMUNITIES IN TROPICAL SUB-SAHARAN AFRICA, "A Research on the Dynamics of Developing New Juaben Municipal Area in Ghana into an Ecologically-Responsive and Energy-Efficient Community" A Report for the PhD Research presented at University**

of Stuttgart.

(http://elib.uni-stuttgart.de/opus/volltexte/2013/8082/pdf/Thesis_Report_PhD_14th_January_2013.pdf)

- Marful, A.B.(2012); LANDSCAPES FOR NEIGHBORHOOD AND COMMUNITY REVIVAL (LaN-CoR) for Urban sub-Saharan Africa: The Case of Ghana; A Paper presented at 48th ISOCARP Congress, PERM, (http://www.isocarp.net/Data/case_studies/2065.pdf)
- Marful, A.B.; Azeez, G.; (2010); AFRO-GREEN URBAN COMMUNITY: The Case of Integrating Sustainable Mobility Management in a Fractal Urban Settlement of sub-Saharan Africa; Networks for Mobility 2010 (Proceedings of the 5th International Symposium, Stuttgart) Mart, U. et al.(Eds).- Stuttgart, (https://www.academia.edu/1321723/AFRO-GREEN_URBAN_COMMUNITY_The_Case_of_Integrating_Sustainable_Mobility_Management_in_a_Fractal_Urban_Settlement_of_sub-Saharan_Africa)
- Marful, A.B., (2010); SUSTAINABLE INFRASTRUCTURE PLANNING IN POST-OIL CITIES - Lessons from Masdar (Abu-Dhabi) and Port Harcourt (Nigeria) for Tema (Ghana); A Paper presented at the MIPALCON 2010, the First MIP Alumni Conference in Stuttgart with the Theme: Infrastructure Planning and Development in Developing Countries the Way forward. (https://www.academia.edu/1321660/SUSTAINABLE_INFRASTRUCTURE_PLANNING_IN_POST-OIL_CITIES_Lessons_from_Masdar_Abu-Dhabi_and_Port_Harcourt_Nigeria_for_Tema_Ghana)
- Marful, A.B., (2005); GREEN HOUSING INFRASTRUCTURE AND PLANNING FOR SUB-SAHARAN AFRICA: A paradigm of medium-low density green housing in Ghana”, A Report for the Master Thesis, University of Stuttgart.(<http://www.ilpoe.uni-stuttgart.de/files/Master.pdf>)

RESEARCH EXPERINECE:

- I. **Collaborating Scientist/ Mentor: Urban Transformations Mentor & Student Research Lab (2014)**
Common Initiative of ISOCARP and the members of Gdańsk University of Technology student research club - LEM-ur, Sponsored by Archicad Poland.
- II. **Lead Investigator** :Landscapes and Initiatives for Community Revival plus(LaNCoR+): The Case of Appiadu, Ghana International Student Research workshop promoted by CLEAN-AFRICA e.V. and Catholic Archdioces of Kumasi and Supported by ISOCARP and GIZ(2015).
- III. **Lead Investigator** :Agro-Tourism as Food Security Strategy (ATaFoSS) the case of Uganda, Ghana and Cameroon (2015)

Languages:

Language	speaking	reading	writing
English	native speaker	native speaker	native speaker
German	Good	Good	Good
French	basic	basic	basic

REFEREES	
<p>Prof. Dr. –Ing. Franz Pesch, Institute of Urban Planning and Design, Faculty of Architecture and Planning University of Stuttgart Keplerstrasse 11 D-70174 Stuttgart Email:franz.pesch@si.uni-stuttgart.de Tel: +49-711-685-839965</p>	<p>Mr. Samuel Asare Nkansah Department of Pharm.cem, FPPS College of Health Science KNUST Email: asn12002@yahoo.com Tel: +49-152012019869</p>
<p>Georg Brakmann SolEngCo GmbH Managing Director (Formerly MD for Fichtner Solar) Im Sämann 123 71334 Waiblingen Germany info@solengco.com Mobile +49 173 6656 161</p>	<p>Prof. G.W.K Ntsiful College of Architecture and Planning, Kwame Nkrumah University of Science and Technology Department of Architecture NO. 7 Buroburo Road Kumasi-Ghana Email: gwkintsiful@yahoo.co.uk Tel: +233-20 8165661/ +233208186121</p>

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.

Date: 13.06.2016

Signature

Dr. -Ing. Alexander Boakye Marful