EMMANUEL ABBA

Experienced software engineer and Digital learning consultant with a demonstrated history of supporting learning and development programs by collaborating with subject matter experts to design, develop, manage and digital learning solutions.

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Employment History

Freelance Consultant,
Common Sense eLearning & Training Consultants   Apr 2022 – Present

- Serve as subject matter expert on current and upcoming LMS capabilities.
- Consult the business, external and internal stakeholders on LMS implementations.
- Streamline learning processes, reducing time and costs while enhancing the overall learning experience.
- Design engaging and interactive content that leads to improved learner understanding and retention.
- Develop innovative and engaging learning solutions that meet unique learning challenges.

Senior digital learning specialist,
Tek Experts   Feb 2020 – Feb 2022

- Recommended and implemented processes leading to best practice of learning delivery on the LMS.
- Publish content, configure completion criteria and passing grades on LMS.
- Ensure data is consistent across all curriculums, sessions, session emails, prerequisites, assignments, user profiles, etc. using custom reports.
- Ensure learning content is accessible and inclusive for diverse learners, including those with disabilities.
- Define, develop and maintain documented training processes, procedures and practices related to the use and administration of Tek Learning technologies.
- Use analytics and evaluation data to inform design decisions and measure training effectiveness

Software Engineer,
Federal Uni. of Technology, Minna   Aug 2015 – Feb 2020

- Automated student registration at CODeL FUTMinna.
- Deployed and customized Moodle LMS to support teaching and learning.
- Increased user engagement/experience by 30% in 6 months.

- Provided technical support to staff and students on the LMS.
- Recipient of Vice chancellor's commendation.
- Recipient of Committee of Dean's commendation.

Chief Technology Officer,
Broken Dictionary, LLC Lexington SC   Mar 2014 – Jul 2015

- Developed pidgin and creole dictionary web platform.
- Optimized word submission and verification to increase user acquisition & retention.
- Developed PWA to serve various device types.

Junior Software Engineer,
FUTMIN VENTURES   May 2012 – Jun 2013

- Developed and deployed NEMA inventory MIS.
- Took inventory of NEMA facilities, resources and stakeholders.
- Developed training materials and conducted training for stakeholders.

Education

Certified digital facilitator
International Training center   Feb 2023

Certified Instructional designer
LinkedIn Learning   Jul 2020

Certified online & open distance learning planner
University of London, center for distance education   Jul 2018

Master of Technology, (Cyber Security Science)
Federal Uni. of Technology, Minna   Jan 2016 – Jun 2018

- Identified 6 new Call Detailed Records (CDR) artifacts.
- Developed process model for investigating incidents multiple mobile networks.
- Optimized threat modelling for electronic health systems.
- Nigerian Communications Commission (NCC) research grant winner.

Bachelor of Technology, (Computer Science)
Federal Uni. of Technology, Minna   Dec 2008 – May 2014

- Deployed #1 ranking repository in Nigeria (webometrics 2013)
- Participated in digitization and publishing of over 4000 thesis and decertations.
- Designed, developed and deployed University staff evaluation and promotion MIS.

Licenses and Certifications

- Certified Moodle Admin
- Certified eLearning instructional designer
- Certified Software Project Management professional
- HCIA – Routing and Switching

Publications

- Salau, S.A., Abifarin, F.P., Abba, E. & Oyedum, G.U. (2021). Development of a Search Webware for Electronic Theses and Dissertations in Stand-Alone Institutional Repositories in Nigeria. African Journal of Management Information System. 3(1).

- Alhassan J.K., Abba E., Misra S., Ahuja R., Damasevicius R., Maskeliunas R. (2020) A Framework for Cyber Ethics and Professional Responsibility in Computing. In: Sengodan T., Murugappan M., Misra S. (eds) Advances in Electrical and Computer Technologies. Lecture Notes in Electrical Engineering, vol 672. Springer, Singapore. https://doi.org/10.1007/978-981-15-5558-9_28

- Abba, E., A.M. Aibinu, J.K. Alhassan, Development of multiple mobile networks call detailed records and its forensic analysis, Digital Communications and Networks, Volume 5, Issue 4, 2019, Pages 256-265, ISSN 2352-8648, https://doi.org/10.1016/j.dcan.2019.10.005

- Alhassan, J. K., Abba, E., Olaniyi, O. M., & Waziri, V. O. (2016). Threat modeling of electronic health systems and mitigating countermeasures. International Conference on Information and Communication Technology and Its Applications (ICTA 2016), Federal University of Technology, Minna, Nigeria.

Volunteer Work

- Speaker, e-Learning Africa 2023, Senegal.
- Speaker, e-Learning Africa 2019, Abidjan.
- Speaker, For-Loop Enugu.
- Technovation challenge Judge.
- Speaker, Minna Tech Meetup Speaker.
- Organizer and Coach, Django girls Minna, Kaduna, Abuja, Benin, Port Harcourt, Benue.
- Organizer, Google Hash code 20

Projects

	From – To	Location	Position	Description
#1	05/2023 - 10/2023	Ghana	Instructional design	**Development of an interactive tutored e-learning course on the management of cardiovascular diseases** • Collaborate with subject matter experts (SME's) and adapt face-to-face training materials to design curriculum for elearning courses for doctors and nurses • Designed interactive modules that included simulations, case studies, and gamification elements to enhance learner engagement and retention. • Developed online mentoring program for learners to accompany curriculum, including capacity development training on online teaching and mentoring • Developed assessments and evaluations to measure learners' understanding and application of knowledge. • Utilized storytelling techniques to present real-life scenarios, making the content more relatable and applicable to the learners' context
#2	07/2023 – 08 2023	South Africa	Instructional Designer	**Sustainable Finance Taxonomies Translation and localization of modules – Translation and localization of eLearning course modules** • Created translation SRT files for videos using text xontent provided by translated in Vyond and adobe premier pro for French and spanish videos. • Ensured the course was accessible on various devices, including desktops, laptops, and mobile devices, to cater to different learning preferences. • Conducted thorough testing and quality assurance to ensure the course was free of errors and functional on various platforms. • Evaluate feedback and changes after quality assurance.
#3	06/2023 – 07 2023	Ethiopia	eLearning Specialist	**Digitization of core processes and development of blended learning formats for the TVET systems in Ethiopia**

	From – To	Location	Position	Description
				• Capacity development in updating and creation of new content and assessments. • Development of learning exercises in H5P for TVET skills in basic product testing, product filling processes, finishing construction and applying interior decoration. • Developed and setup assessments to test skills in the TVET fields above • Curated learning content (self-learning modules, videos and exercises on the learning management system.
#4	01/2023 – 03/2023	Ethiopia	Instructional design and eLearning producer	**African CDC Mortality surveillance Course (African Union) – Video production and course translation** • Video storyboarding (scripts and content) for scenario-based learning • Quality assurance of digital learning content • Production of videos based on client approved storyboards using Vyond. • Implementation of client feedback and quality assurance on developed video.
#5	11 – 12/2022	Libya	eLearning Specialist	**GIZ Lybien Primary Health Care (PHC) Project (Federal Ministry for Economic Cooperation and Development)** • Collaborated with SMEs and Arabic language translators to localise and adapt community health worker course from English to Arabic. • Implemented feedback from quality assurance checks to ensure the accuracy of translation while maintaining the objective of the lessons. • Adapted all media files including images, videos and graphics to the language of the translation. • Facilitated capacity building workshop for TOT
#6	08/2022 – 11/2022	Vietnam	Instructional Designer	**TVET eLearning content creation Course (GIZ Vietnam)** Quality assurance of video storyboards for Vyond video production • Video production for TVET online training courses using Vyond • Creation of Web-based training for TVET online training courses using Articulate Rise
#7	12/2021 – 09/2022	Eritrea	Instructional design and	**Leather testing course production (UNIDO)**

	From – To	Location	Position	Description
			eLearning producer	• Collaborated with SMEs in the field of footwear engineering to convert learning content from face to face training to online learning content • Creation of storyboards for 5 modules of the footwear engineering course • Design of graphic assets for course module development • Design and development of course modules using articulate storyline. • Quality assurance in collaboration with SMEs • Implemented translation of course modules to Tigrinya
#8	09/2021 – 11/2021	Nigeria	eLearning Specialist	**Antigi Partner and User journey tutorials** • Storyboarding and script production for creation of screencasts for a guide on how to use H5P. • Production of screencast video tutorials (script and content) on how to create H5P content on the Moodle-based Atingi LMS. • Creation of scripts for partner journey videos • Screencast production for partner journey videos on Atingi (Moodle)
#9	07/2021 – 10/2021	India, Brazil	eLearning Specialist	**Adaptation of Articulate Rise modules of the Atingi COVID-19 course by collaborating with subject matter experts (language experts) from Ghana, India and Brazil** • Developing "learner how to guides" with H5P • Facilitated capacity building workshop to ensure editing and updating of content post deployment by the clients representatives
#10	03/2021 – 11/2021	Nigeria	eLearning Specialist	**Nigerian energy support programme clean energy learning content production** • Design of curriculum for the clean energy course • Production of instructional design documents and blended learning strategy (high level). • Storyboarding and production of introductory module of Solar Photovoltaic System course. • Storyboarding and production of Installing a Solar Photovoltaic System and workplace safety and first aid course from face-to-face training manual. • Training and facilitation of the co-production process using various Moodle activities.

	From – To	Location	Position	Description
#11	08/2019 – 01/2020	Nigeria	Senior software engineer	**Central bank of Nigeria Financial Literacy Learning platform and content development (GIZ)** • Customised Moodle LMS to support teaching and learning of financial literacy concepts. • Iterative development of Moodle LMS with prototyping and piloting to include user feedback • Optimised page load time by 80% using cached data. • Developed API for mobile app integration. • Platform troubleshooting, updates and patch integration. • Improved user experience (UX) by over 75% by reducing the number of clicks required to access learning resources. Leaner surveys and decrease in number of support requests by learners were used to measure the impact of the iterative UX modifications.
#12	07/2018 – 07/2019	Nigeria	Senior software engineer	**Small and medium scale enterprise (SME) entrepreneurship training and learning content development (GIZ - SEDIN)** • LMS server setup and security implementation • LMS customization, branding and design to meet client specifications • Defining testing objectives for the LMS • Onboarding of over 600 users within the first 90 days of launch, through online and in-person training and demo sessions. • Provided user technical support. • Piloted the SMESabi platform with members of the Nigerian youth service corps and implemented feedback from reviews and usage of the LMS. • Facilitated digital literacy skills training for instructors to prepare them for digital course delivery. • Design of complete self-paced courses, virtual instructor-led training, and blended learning incl. development of content and storylines.
#13	03/2016 – 07/2018	Nigeria	Director/ project manager	**Django Girls training for women empowerment in Niger, Benue, kaduna and Edo states in Nigeria** • Curriculum design for digital skills training • Communication and promotion of training workshop to create awareness and ensure registration and participation

	From – To	Location	Position	Description
				• Facilitation of training and capacity building workshops at the various locations • Partnered with stakeholders and community leaders to secure sponsorship • building and managing cross-functional teams for training, logistics • planning, executing, and conducting workshops on time and within budget.
#14	08/2015 – 02/2020	Nigeria	Digital learning specialist / System Analyst	**Training and administration at the Centre for Open distance and eLearning** • Developed storyboards for basic level STEM courses for online delivery. • Used instructional design principles and created effective assessments, quizzes, and other evaluation tools. • Created engaging visual and multimedia content using tools such as Adobe Captivate, Articulate Storyline and Rise • Facilitated in-person training on Open Educational Resources (OER) for lecturers in the computer science department on where to get open source teaching aids • Facilitated in-person training on attributing Creative Commons licences to resources used in creating eLearning modules. • Creation of scripts, storyboards and instructional design documentation for basic level stem courses • Increased user engagement in learning activities by 6% in 6 months by improving UX features. • Recipient of Vice chancellor's commendation. • Recipient of Committee of Dean's commendation.
#15	05/2012 – 06/2013	Nigeria	Junior System Analyst	**Development and training of National Emergency Management Agency (NEMA) officials on use of information management system (NEMA-MIS)** • Automation of emergency response information management systems, training of staff and development of training materials for NEMA Nigeria. • Collaborated with subject matter experts at the National Emergency Management Agency in Nigeria to design and develope NEMA-MIS. • Created storyboards and developed learning content on how to guide for users and administrators.