Kabir **Abdulmajeed**

SYSTEMS ENGINEER · CV, ML, DL, ROBOTICS

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"Interested in intelligence and autonomy for different systems"

Sum**mary**

I'm a Robotics enthusiast. From Unmanned vehicles to Robotic surgery, I have passion for every system that can sense, think, and act on its own. My experience ranges from Signals and Communications (B.Eng), Systems, Robotics and Control theory (M.Sc), and currently, a Machine learning specialization (2nd M.Sc). I've had the opportunity to work with Ultrasonic and EMAT technologies for Oil and Gas In-line inspection. Similarly, I have experience in the communcations industry and once helped develop software for a medical facility.

Edu**cation**

Georgia Institute of Technology (GeorgiaTech)   *Atlanta GA, USA*

M.Sc IN COMPUTER SCIENCE   *Aug. 2018 - Exp. Sept. 2020*

• Specialization in Machine Learning, current CGPA: 4.0/4.0

King Fahd University of Petroleum and Minerals   *Dhahran, S.Arabia*

M.SC IN SYSTEMS ENGINEERING   *Jan. 2015 - Jan. 2017*

• Specialization in Systems, Robotics, and Control, CGPA: 3.72/4.0

Osun State University   *Osun, Nigeria*

B.ENG IN ELECTRICAL AND ELECTRONICS ENGINEERING   *Sept. 2009 - Mar. 2013*

• Specialization in Signals and Communications, CGPA: 4.7/5.0

Wor**k Experience**

ROSEN   *Dubai, UAE*

SENSORS AND ALGORITHMS ENGINEER - ROSEN RESEARCH AND TECHNOLOGY CENTER   *Jul. 2018 - PRESENT*

• Implemented Machine learning algorithms for Automatic detection of Pipeline features such as Bends, GirthWelds, Dents, Tees
• Worked on PIG tool Distance-Time Mapping using Kalman Filtering and a Dynamic Model.
• Prepared and Cleaned data from UT and EMAT Experiments
• Developed Algorithms for Detection of Coating Disbondment in pipelines
• Developed GUI for Intelligent Pipeline Cleaning Status
• Built Desktop Application for Library of the Research Center

Alcatel-Lucent   *Lagos, Nigeria*

3G UMTS ENGINEER   *Feb. 2011 - Aug. 2011*

• Worked on the Integration of 3G Network all over Lagos state
• Performed NodeB and RRH installations, commissioning, upgrades, fiber-optic swaps, and troubleshooting
• Coordinated team of riggers and technologists for BTS Site inspection, surveys, and hand-over
• Worked on more than 250 BTSs with prompt response to NMC/NOC alarms

Osun State University   *Osun, Nigeria*

GRADUATE ASSISTANT   *Aug. 2014 - Jan. 2015*

• Supported faculty research activities in the Communications group
• Assisted in Proctoring, Grading, and Tutoring
• Organized laboratory sessions

Abike Memorial Clinics   *Kwara, Nigeria*

SYSTEMS ANALYST   *Feb. 2014 - Jul. 2014*

• Installation of relevant hardware and software to support clinical work
• Maintain and organize medical records efficiently
• Troubleshooting of PC systems
• Developed GUI for contrast enhancement of Ultrasound images

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Projects and Skills

M.Sc. Thesis
Kfupm, S.Arabia

Autonomous Sensor Deployment using an Unmanned Aerial Vehicle
2016

- Designed a Framework for the Control of a Quadrotor to deploy a Geophone sensor for Oil and Gas exploration

B.Eng. Thesis
Uniosun, Nigeria

Design and Construction of a Mobile Phone Jammer using Extrinsic Noise
2013

- Designed circuitry using environmental noise for jamming cellular communications in the GSM band.

Projects
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More details on my Webpage
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- Learning Algorithms for Tradings, Exposure Fusion, Seam-carving for Image resizing, SeaLion Classification using CNN, ADRC Controller for Quadrotors, Dinosaur name generation using RNN, Image Panoramas, Induction Motor Controller using Lyapunov Backstepping

Computing Skills
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Languages, Software, Packages
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- Python, Matlab, Simulink, VREP, NumPy, OpenCV, Keras, Linux, Sklearn, SolidWorks, ROS

Honors & Awards

International & National

Year	Award	Location
2015	**KFUPM-DGS**, King Fahd University Graduate Fellowship	*Dhahran, S.Arabia*
2014	**B.E.S.T**, Runner-Up National Budding Engineers and Scientists Award - Fed. Ministry of Education	*Abuja, Nigeria*
2013	**Pro-Chancellor's Award**, Overall 2nd best Undergrad performance, Osun State University	*Osun, Nigeria*
2013	**Vice-Chancellor's Award**, Overall best performance from the College of S.E.T, Osun State University	*Osun, Nigeria*
2013	**Departmental Award**, Best performance from the EE Department, Osun State University	*Osun, Nigeria*
2013	**FELD Award**, Runner-Up, National Undergraduates Competition	*Lagos, Nigeria*

Referees

Dr. Samir Al-Amer
samirha@kfupm.edu.sa

Associate Prof. SCE King Fahd Uni. of P&M

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Prof. Alamu O.J.
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Former VC Osun State Uni.

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Dr. Lasisi H.
lashammed@yahoo.com

Lecturer EE, Osun State Uni.

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