CURRICULUM VITAE

THE APPLICANT	Name: Mr. Husam Yousef Abdalkareem Omar Al-Hetari Nationality: Yemeni Mobile: +967 777365539 Email: <u>husamalhetari@gmail.com</u>
EDUCATION & ACHIEVEMENTS	 - 2002 Sudan University of Sciences and Technology, Khartoum - Sudan Bachelor of Biomedical Engineering With Honour Degree- Excellent. - 2014 Saleh Babakr prize for invention – Local competition – Second class
	- 2015 University of Sciences and Technology, Sana'a - Yemen Master of Biomedical Engineering - Excellent.
	 - 2016 National Instrument (NI) competition - Middle East competition for best design using LabVIEW – rank 12th.
PERSONAL PROFILE	I am confident, enthusiastic and prepared to work hard to achieve personal and career goals. I have a nature approach to responsibilities work and work well under pressure. Open and honest, I have wealth of experience gained in a variety of work environments. Ambitious and goal oriented. I am keen to find a challenge position in order to realize my full potential. My first objectives improving my experiences and developing healthy and education level in the society.
WORK HISTORY	 1- (University of Sciences and Technology – Sana'a) 2009 - present "teaching staff", "Medical Equipment Calibration and Training Center" Teaching Bioelectronics and Measurements lab. (ELETTRONICAVENETA-ITALY). Teaching biomedical quality assurance advance lab. (FLUKE BIOMEDICAL-USA) Quality assurance coordinator in Biomedical Engineering Department. Consultant and trainer of quality assurance instruments (1 have got training in QA Instruments - FLUKE Biomedical - Dubai -2010). Trainer for advance medical equipment. (BEDA PRECISION – KSA). Supervisor for graduated students' projects and has good experience on LabVIEW, Arduino , Protues and Matlab. Teaching in Biomedical Engineering Department (advance subjects related to the filed) Such as DSP, Medical Imaging include (X ray, Dental, Mammography, Fluoroscopy, Angiography, CT, MRI, PET, SPECT), Engineering physics, Electronics, Bioelectronics, Introduction to the BME, Trouble shooting lab, Calibration lab, Advance medical equipment lab, Bioelectronics lab.
	 2- (Althowra Public Hospital – Sana'a) 2003 – 2009 "Biomedical Engineer " Repairing and maintaining medical equipment. Prepare, Check and test medical instruments specifications. 3- (Bianounah Company Of Medical Supplies – Sana'a) (part-time) 2006-2009 biomedical service engineer " Repairing and maintaining medical equipment (CBC, Chemistry analyzer, Eliza) 4- Social Fund of Development. Consultant Engineer " Analyzing medical instruments bids and choosing better specifications. 5- (High Institute of Health Science - Head centre-Sana'a) Teaching Staff " Teaching students subjects related to the field. Participating in workshops of preparing the curriculums in medical equipment department

SKILLS	 Good judgment and decision-making skills. Able to write clearly and appropriately. Adaptable to different ways of performing tasks. Discreet and trustworthy. Typing both Arabic and English. Computer literate and knowledgeable in the use of MS Office (Windows, Word, Excel, Power Point, Access, Internet and typing skills)
TRAINING COURSES	 Training course in quality assurance instruments - FLUKE Biomedical - Dubai -2010 including the flowing : 1-601 PROXL INTERNATIONAL SAFETY ANALYZER 2-IEC:601 ELECTRICAL SAFETY STANDARDS 3- QA-ES MKII ELECTROSURGICAL ANALYZER 4- MPS450 PATIENT SIMULATOR (4IBP) 5- INCU INCUBATOR ANALYZER 6-PHOTOTHERAPY RADIOMETER 7-SIGMASPACE 1000 EXTERNAL PACEMAKER ANALYZER 8-UNIVERSAL PRESSURE METER 9-VT PLUS HF FLOW ANALYZER WITH ACCULUNG 10-INDEX2XFILE PULSE OXIMETER SIMULATOR 11-ANSUR AUTOMATED SOFTWARE 12-IDA 4 PLUS 1 CHANNEL INFUSION DEVICE ANALYZER 13-BP PUMP 2M NON-INVASIVE BLOOD PRESSURE ANALYZER 14- IMPULSE 7000DP DEFIB./TRANSCTANEOUS PACEMAKER ANALYZER. 17 Training course in some medical equipment - BEDA PRECISION - KSA including : PATIENT MONITOR, VENTILATOR, ESU, DEFIBRILLATOR, INFUSION PUMP, HEMODIALYSIS and ULTRA SOUND. 17 Training course in PLC controllers - University of Science and Technology - Sana'a- 2017 17 Training course in solar energy systems - University of Science and Technology - Sana'a- 2017. 17 Training course in design of sensors circuits using microcontroller. University of Science and Technology - Sana'a- 2010. 17 Training course in SPSS - University of Science and Technology - Sana'a- 2010. 17 Training course in MESS - University of Science and Technology - Sana'a- 2010. 17 Training course in Medical equipment by Alhusain Medical City staff - Sana'a. 17 Training course in medical equipment by Alhusain Medical City staff - Sana'a. 17 Training course in medical equipment by Alhusain Medical City staff - Sana'a. 17 Training course for curriculum preparation of (ABET) - UST- Sana'a. 17 Participating in Second Exhibition of Yemenis' Inventions-Sana'a -2013. 19 Participating in Solar energical equipment - Sudan.
ENGLISH COURSES	 English courses – intermediate level – Modern British Institute – Sana'a. English courses – water ford center – advance level – Sana'a .

EXPERT TRAINER	 Course of preventive medical equipment maintenance and medical equipment management in health facilities - using FLUKE Biomedical analyzers and simulators - supervision and Fund of European Union - Ministry of Public Health and Population -Sana'a -2016. Course of Electrical Safety in health care facilities - using 601 PROXL INTERNATIONAL SAFETY ANALYZER - central laboratories – Ministry of Health - Sana'a -2016. Course of Quality assurance of medical equipment in ICUs - Quality Assurance and Consultant Center - UST - Sana'a -2016. Courses of quality assurance instruments using FLUKE Biomedical analysers and simulators– UST- Sana'a (I have trained many students from local and foreign universities).
RESEARCH ACTIVITES	 Published scientific papers: A Mathematical Model of Lung Functionality using Pressure Signal for Volume-Controlled Ventilation, 2020, IEEE. Modeling Lung Functionality in Volume-Controlled Ventilation for Critical Care Patients, 2020 IEEE. Sensor- based fall detection systems: a review, ISI, 2021. Simulation of Mathematical Model for Lung and Mechanical Ventilation, Journal of Science & Technology, Vol. (21) No. (1) 2016. Quality Assurance Measurement of Low Flow Rate Infusion Pumps Devices, Journal of Science & Technology, Vol. (20) No. (1) 2015. Comparison of 3D Protein structure Prediction Algorithms, International journal of Engineering Research and Application, IJERA, Volume4, Issue 2,2014
E-LEARNING	Effective teacher in E-learning (UST Elearning program- LMS)
BMECCC Manager	Responsible for Biomedical Engineering Calibration and Consultation Center in UST-Yemen. The duties include : - Quality assurance and calibration of medical equipment . - Training of medical equipment quality assurance courses .
APPRECIATION CERTIFICATES	 Merit certificate because of achieving second class of Saleh Babakr competition for invention. Merit certificate because of achieving tenth class of the republic at preparatory schools. Certificate of good behaviour - Sudan University of Science and Technology Thanks certificate because of participating in workshop of preparation education curriculums - High Institute of Health Science – Sana'a. Merit certificate because of training foreign universities' students and engineers - UST-Sana'a.
LANGUAGES	1-Arabic: Fluent. 2-English: V .good.
INTEREST AND ACTIVITIES	 Effective member of Anti-Qat Association. I enjoy Swimming, Reading, Gardening and Volunteer Work. Keen to learn from the experiences of others.
REFERENCES	Available on request