AHMED HUSSEIN SALAMAH

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Academic Education

September 2014 - January 2017	 Master Degree in Communications and Electronics Department from Faculty of Engineering. Arab Academy for Science and Technology and Maritime Transport (AASTMT). GPA 4 out of 4 (Full Scholarship). Thesis Title "Investigation of the Benefits of Using Machine Learning Approaches in Wi-Fi Indoor Localization Systems".
September 2009 - July 2014	 Bachelor Degree in Communication and Electronic Department from Faculty of Engineering. Arab Academy for Science and Technology and Maritime Transport (AASTMT). GPA 3.98 out of 4. Ranked 3rd on my Class. Graduation Project "Humanoid Robot Controlled with Android Application and Voice Interaction".

Publications

Ahmed Hussein Salamah, Mohamed Tamazin, and Maha Sharkas, "Investigation of the Benefits of Using Machine Learning Approaches in Wi-Fi Indoor Localization Systems," in Proceeding of the Journal of Navigation. (forthcoming)

Ahmed Hussein Salamah, Mohamed Tamazin, Maha Sharkas, and Mohamed Khedr, "**An Enhanced WiFi Indoor Localization System Based on Machine Learning**, " in Proceeding of Indoor Positioning and Indoor Navigation (IPIN), 4th – 7th October 2016.

Teaching and Academic Qualifications

Current Job	Research and Teaching Assistance as a Technology and Maritime Transport (AAS	Full-time in Arab Academy for Science and TMT).
September 2014 – January 2017	Research and Graduate Teaching Assista	nce as a Full-time in AASTMT.
Taught Courses	 Introduction to Digital Communication Systems Multimedia Communication Systems Signals and Communication Systems Analog and Digital Signal Processing (Mechatronics Department). Analog Signal Processing 	 6- Digital Signal Processing 7- Fundamental of Electronic Devices 8- Electronic Amplifiers 9- Electronic Measurements 10- Solid State Materials 11- Fundamental of Electrical Circuits

Responsibilities	 Assisted academic staff with organizing and delivering their teaching material. Assisted in planning and teaching of new technical academic material to undergraduate students during the Tutorial and laboratory sessions. Guidance of undergraduate students in registration, logistical and academic issues as well as scientific practical projects. 			
Internships and Trainings				
JUNGHEINRICH - Cairo (2 nd – 14 th February 2013)	Training conducted at JUNGHEINRICH (German Company at CAIRO) included: Forklift designs, its Electronic Motor Design and the Circuit Diagram of every forklift with its troubleshooting.			
Alcatel Lucent University – Cairo (June – July 2012)	Internship at Alcatel Lucent University as a Department of career developing at Alcatel-lucent Company, I took the following Courses: Core (NSS), IN, GPRS, VAS.			
Radio Team that Manage Mobinil Network at Alcatel- lucent - Cairo (June - September 2012)	Internship at the Radio Team responsible for managing Mobinil Network atAlcatel-Lucent and Responsibility includes:A. As Performance:1- Frequency Planning.2- Monitoring3- KPI's Investigation.4-Downgrade & Upgrade.B. As Optimization Parameter:1- NPO2- TEMS3- MapInfo4- Asset5- Omnix			
Vodafone –Alexandria (April 2014)	Training with Research and Development Team at Vodafone for two weeks and learned: GSM Architecture, InBuilding Solutions and Transmitting lines.			
	Technical and Academic Skills			
Programming Languages	C , Python, Basic Knowledge of Java, Assembly language and Visual Basic.			
Key features of Research	 An Android Application was developed to collect Wi-Fi RSSI Readings and the Mobile sensors that's works as a server base in the indoor localization application. Body-coupled communications by Wireless Body Area Networks technology (BANs) on BodyCom Development Kit by Microchip. Machine Learning, Pattern Recognition and Neural Networks Applications using Matlab. Multimedia Communication Systems (Video and Audio Compression). Basic Knowledge of Deep learning and Game theory. 			

Software (Platforms / Tools)	Microsoft Windows and Debian Linux (Ubuntu and Raspbian), OpenCV (Basics), Basic Knowledge of NS2 and NS3, Matlab, Simulink, Eagle, Proteus, Atmel Studio (AVR Microcontrollers) and Code Vision AVR, Android Studio. Certified: ICDL version 5 on August 2016.			
Academic Projects and Activities				
Graduation Project	A Humanoid Robot is designed with 20 degree of freedom Robot, which is controlled remotely by a Mobile Application (APK). The robot is connected by Bluetooth, GSM Module and Voice Interaction and Commands. This humanoid operated with the control of the Microcontroller and Raspberry Pi , which they are responsible for Face detection and Recognition. The Inverse kinematics modeling is applied on the end effector to catch the detected objects upon a reference point.			
Competitions related to Graduation Project	 Participated to the final phase in Made in Egypt Competition (MIE). Participated in the Egyptian Engineering Day (EED). Participated in the scientific day of the Egyptian Military Technical College. 			
Activities	 Presented my paper in Indoor Positioning and Indoor Navigation (IPIN2016) Conference. Volunteered to lead a ROV Team as a Technical Mentor. Participated in Valeo Innovation Challenge (2015 and 2017). Volunteered to be a Technical Advisor for Intel IOT Products at IEEE-AASTMT. Participated with my team in Hackathon Egypt and reached the Final Phase. Volunteered to Supervise on "SmartAuto: Advanced Driver's Monitoring and Assistance System" in IBTIECAR 2014 Competition that reach the 3rd place. First ranked in Sumo-Robotics Competitions under the organization of IEEE- AASTMT branch. Volunteer at Life Makers Foundation, which is a non-profit organization aims to the development of our society through empowering youth by raising and strengthening their capabilities. 			
Other Projects	 Face Recognition (Feature Extraction Approach). Optical Network (FPGA Implementation). Home Automation (based on ESP8266 connected to main server). MedicaMinder (Smart medical box). Network Simulation of the University. Inverse Kinematics Modeling in a Robotic Arm. Mobile Device (Microcontrollers and GSM). Blood Pressure and Heart Beat Sensor Design. 			
	References Available on Request			