

SAFA HALAWI

Beirut, Lebanon

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EDUCATION

Oct 2016 – Oct 2018	AMERICAN UNIVERSITY OF BEIRUT (AUB), Faculty of Engineering <i>Master of Engineering in Wireless Communication Engineering, CGPA 4</i> <ul style="list-style-type: none">Coursework including: Wireless Communications, Wireless Cellular Technology, Antenna for Wireless Communication, Microwave Engineering, & Advanced Topic in Project ManagementThesis: Adaptive MIMO-CSK Camera-Based Visible Light Communication for Vehicle-to-Vehicle Communications	Beirut, Lebanon
Sept 2011 - June 2016	BEIRUT ARAB UNIVERSITY (BAU), Faculty of Engineering <i>Bachelor of Engineering in Communication and Electronics Engineering</i>	Beirut, Lebanon
Honors & Awards	<ul style="list-style-type: none">AUB Faculty of Engineering Graduate Scholarship for years 2017 and 2018Ranked first in class in academic years 2013, 2014, 2015, and 2016, and ranked second in class in academic year 2012Received BAU's Top Ranking Scholarship in 2013, 2014, 2015, and 2016	

WORK EXPERIENCE

Jan 2021 - Present	UBILITE <i>RF Engineer</i> <ul style="list-style-type: none">Designed low-power WiFi System on Chips that can be integrated into any of Internet of Things device using advanced software – Cadence.Worked within a team of worldwide expertise tasked with designing and implementing the radio blocks.Aligned regularly with the Ubilite teams around the world through regular conference callsWrote detailed documentation of the designs in hand and summarizing the specifications in data sheets.	Beirut, Lebanon
Jan 2019 - Jan 2020	ERICSSON NORTH MIDDLE EAST <i>Integration Engineer</i> <ul style="list-style-type: none">Provided Integration service delivery in GSM, UMTS, and LTE technologies to telecommunication operators in MENA region like MTN-ZA, Airtel-Rwanda, Guinea-Bissau, Ooredoo-Qatar, Zain-Bahrain, Batelco-Bahrain, and MTN-BeninIntegrated Khalifa International Stadium sites for 2022 FIFA World Cup QatarCollaborated with Ericsson China team to deliver integration and migration work for Zain-Bahrain, and Batelco-BahrainGenerated automated tools for PCI Scripting and CodingPerformed trouble shooting and customer support activities, and handled support incidentsEarned "Power Award" recognition	Beirut, Lebanon
Oct 2016 - Oct 2018	AMERICAN UNIVERSITY OF BEIRUT, Electrical Department <i>Research and Graduate Assistant</i> <ul style="list-style-type: none">Investigated the channel modeling for Visible Light Communication and submitted the results in IEEE journal paperPresented a seminar for faculty members and students on enhancing the Visible Light Communication (Li-Fi) Technology	Beirut, Lebanon

July - Sept 2015	DAR AL-HANDASAH (SHAIR & PARTNERS), Electrical Department	Beirut, Lebanon
	<i>Intern</i>	
	<ul style="list-style-type: none"> Designed and implemented schematic diagrams & layout of floor plans on structure cabling network, fire alarm system, WLAN, and CCTN system Collaborated with peers on real life project: “Cabling & Connectivity for Telecommunication and Equipment Rooms” 	

COMPETITIONS & WORKSHOPS

June - July 2015	BEIRUT-RAFIC HARIRI INTER’L AIRPORT, Maintenance Department	Beirut, Lebanon
	<i>Intern</i>	
	<ul style="list-style-type: none"> Electronics Theoretical Course in Instrument Landing Systems, and Voice Communication System Worked on projects including Radar Doppler VHL Omni Directional Range, Distance Measuring Equipment, and Aeronautical Fixed Telecomm Network 	
Oct - Nov 2015	ERICSSON NORTH MIDDLE EAST, Universities Wireless course	Beirut, Lebanon
	<ul style="list-style-type: none"> Attended wireless course in wireless network operations: UMTS and LTE Won third place award at the Ericsson Universities Wireless Competition 	

SKILLS

Languages	<ul style="list-style-type: none"> Fluent in English and Arabic
Networking	<ul style="list-style-type: none"> Routing & Switching
Programming & Software	<ul style="list-style-type: none"> <i>Programming skills:</i> VBA, MATLAB, Python, HTML, CSS, Ruby on Rails, and C <i>Database skills:</i> SQL <i>Version Control:</i> Git <i>Operating Systems power user skills:</i> Linux TEMS CellPlanner Tool & Mentum Planet for Wireless Network Planning and Optimization Tool High Frequency Electromagnetic Field Simulation: HFSS

CERTIFICATES

- Certificate in **Web Software Engineering**, Offered by Gtlogic
- Python** Basics for Data Science, Offered by IBM
- Linux** Training course, Offered by Udemy
- The Ultimate **MySQL** Bootcamp: Go from SQL Beginner to Expert, Offered by Udemy

PUBLICATIONS

- Journal paper in IEEE Transactions on Communications 2019:* “Performance Analysis of Circular Color Shift Keying in VLC Systems with Camera-based Receivers”
- Conference paper in IEEE 30th Annual International Symposium on Personal Indoor and Mobile Radio Communications Conference 2019:* “Novel Extended Circular Color Shift Keying Constellation in VLC Systems with Camera-based Receivers”