

Alaa Serhal

TECHNICAL CONSULTANT - MUREX SYSTEMS

Beirut, Lebanon

☎ +961-76959924

| ✉ alaa.serhal@outlook.com

| 📱 AlaaSerhal

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Seeking a job opportunity within your esteemed company where I can provide the institute with the benefit of my knowledge and technical skills.

Education

Lebanese American University

B.E. COMPUTER ENGINEERING

Byblos, Lebanon

Sep 2015 - June 2020

Experience

Murex Systems, Onyx Delivery and Support

TECHNICAL CONSULTANT

Beirut, Lebanon

July 2020- Present

- Deliver and support Murex systems on client's premises and Murex machines using Putty sessions and FTP/SCP.
- Deploy and manage environments on different operating systems like Unix and windows.
- Assist clients in automating tests on Murex software using the MXtest tool and the different Murex Testing Suite libraries.
- Run CI/CD projects, and develop pipelines for building, testing and delivering these projects by utilizing tools as Jenkins and Git.

Bayerische Motoren Werke AG - BMW

SOFTWARE DEVELOPER

Munich, Germany

Feb 2019- Aug 2019

- Developed multiple logistics robots that are currently deployed in different production plants and assembly lines.
- Collected and analyzed the plants' requirements for the robots' graphical user interface.
- Led the user interface team in developing the generic approach of the new user interface for all robots.
- Developed the Logistics Robotics Web-App to generate logs and statistics for all robots in operation.

Lebanese American University - LAU

COMPUTER LAB ASSISTANT

Byblos, Lebanon

Sep 2015- Jan 2019

- Provided network and IT support for all computers in different labs.
- Tested, debugged and repaired failed operating systems and programs.
- Configured "Cisco" and "Polycom" video conference equipment.

Projects

SOS - Smart Obviation Sprinkler

CAPSTONE DESIGN PROJECT

- Scalable solution to prevent and extinguish fire, preserve appliances, increase triggering accuracy, minimize damages and reduce installation and maintenance costs.
- Reliable detection and localization of fire through computer vision, machine learning, object tracking, thermal, smoke sensors and a PID controller for precise fire extinguishing.

SafeGo

CONGESTION MANAGEMENT AND COVID-19 TRACE APPLICATION

- Facilitates people's movements during the COVID-19 pandemic and provides a seamless digital tool to monitor places' congestion statuses by showing heat maps and congestion rates.
- Identifies nearby infectious individuals using BLE technology and warns users for any potential risks through push notifications.

Skills

Software and Hardware

PROGRAMMING LANGUAGES AND TOOLS

- Python - Java - PHP - HTML - CSS - Javascript - AJAX - jQUERY - SQL - MongoDB - Assembly - VHDL - MATLAB - Git - ANGULAR - FLASK - TensorFlow - OpenCV - Linux(ubuntu) - Altera Quartus - Eclipse - Android Studio - OrCAD - Robotics Operating System (ROS) - JIRA
- Embedded Systems - Raspberry Pi - Arduino - PIC18F4550 - FPGAs - Microprocessors - Universal Robots Arm (UR10) - Encoders - Sensors - Depth cameras - Servo motors - Controllers - PLC
- Microsoft Office - Microsoft Power BI - Google CoLab - Adobe XD (UI/UX) - Adobe Premiere - Adobe Photoshop - Adobe Audition

LANGUAGES

- English - Arabic

Certificates

- 2020 **Digital Marketing Specialist**, Fundamentals of Digital Marketing By Google Garage
- 2018 **Participant**, BMW and Splunk Hackathon
- 2015 **Official Member**, Institute of Electrical and Electronics Engineers (IEEE)