

IoT Job Profiles

Responsibilities

Technical skills

Soft skills



◆ Technical background not mandatory.



IoT Applications Developer

◆ Develops end user IoT applications on top of AEP, covering all use cases of the customer requirements.

- ◆ HTML5 -CSS -JavaScript -Node JS
- ◆ Structured data (SQL)
- ◆ IoT AEP (Application Enablement Platform)



◆ GUI / Look and Feel Design

- ◆ IoT Application Protocols
- ◆ Wireless Communication technologies
- ◆ Linux OS

◆ Needed Technical background.

- Computer Engineering
- Communication Engineering
- Automatic Control Engineering
- Computer Science



IoT Solution Architect

◆ Design creative and (scalable) solutions.
◆ Recommend systems/ equipment based upon client needs.
◆ Write reference solution document.

- ◆ IoT Application Protocols (MQTT, CoAp ,HTTP, AMQP, XMPP etc.)
- ◆ IoT AEP (Application Enablement Platform)
- ◆ Wireless Communication technologies
- ◆ Non-structured data engines (Mongo, Rides)

- ◆ HTML 5 -JavaScript -Node.js
- ◆ Linux OS



IoT System /IoT Service / System Integration Engineer

◆ Installs, configures and supports IoT systems with all their system components.
◆ Provides client with post-installation and integration support.

- ◆ Linux OS
- ◆ Network Troubleshooting skills
- ◆ IoT Protocols (MQTT)
- ◆ Wireless Communication technologies

- ◆ HTML 5 - CSS - JavaScript - Node JS
- ◆ Structured data (SQL)



Integrator web sites for example

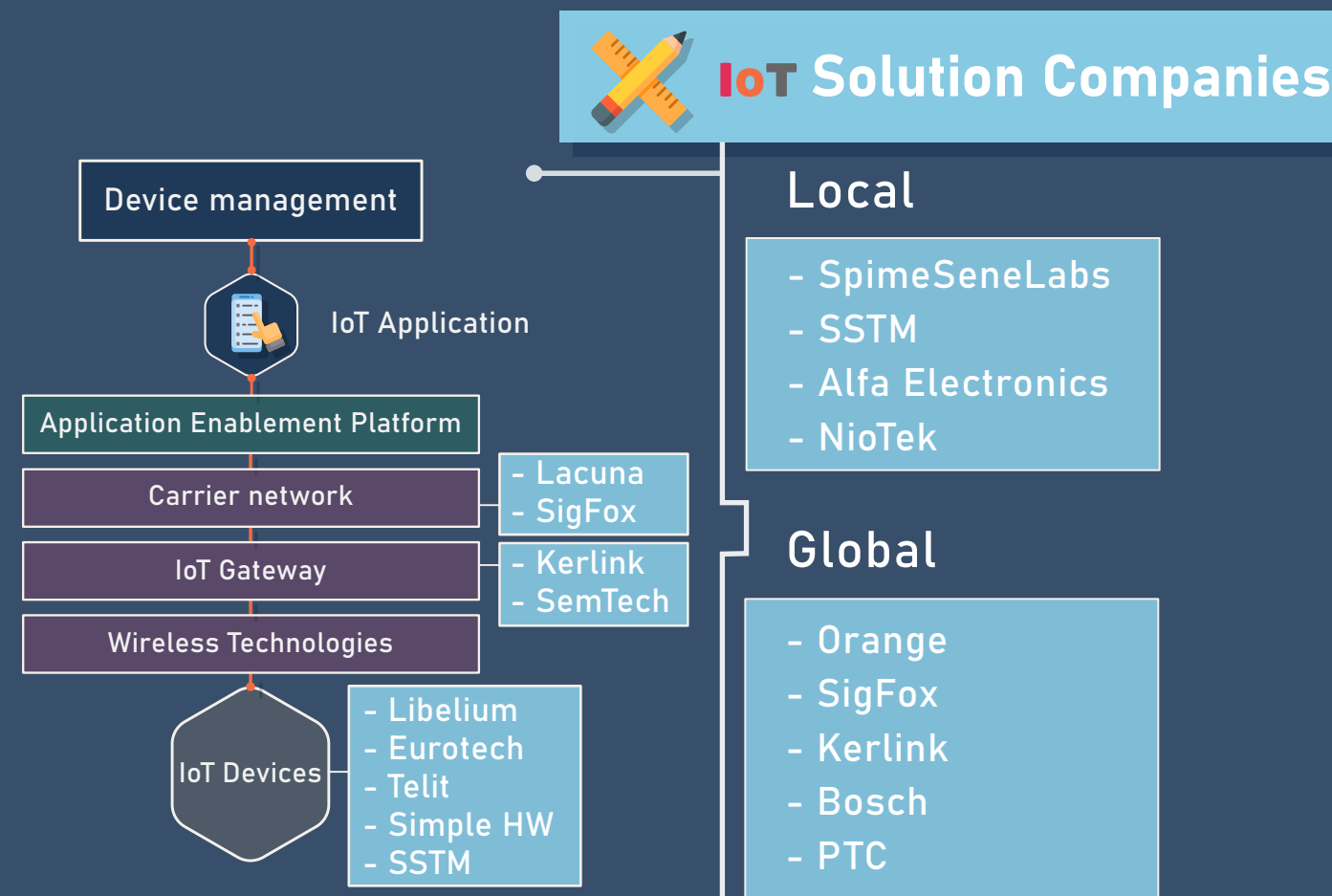
◆ For info about LoRa will go to www.semtech.com

◆ For how to configure a Senselt device, will go to www.sensit.io and build.Sigfox.com

◆ For information about available LoRaWan gateway coverage and configuration will go to TheThingsNetwork.org

◆ For how to configure IoTik innovation kit will go to [Fb.com/IoTikInnovate](https://fb.com/IoTikInnovate) face book page

IoT Value Chain



Helpful Resources

[MaharaTech_IoTCourses](#)

[PTC_IoT Certificate](#)



Recommended IoT Books

- ◆ An Introduction to IoT.
- ◆ Internet of Things for Architects by Perry Lea.
- ◆ IoT and Edge computing for Architects by Perry Lea.
- ◆ IoT Fundamentals: Networking Technologies, Protocols, and Use Cases.
- ◆ Designing for the Internet of Things by Adrian McEwen.

[Egypt IoT Lab](#)



To keep yourself updated

- ◆ IoTForAll.com
- ◆ Internet of Things world LinkedIn_group
- ◆ Internet of Things LinkedIn group