

# Saiful Affendy Sayuti

Lot: 5180, Jalan Baiduri, Taman Perwira Indah,  
53100 Gombak, Kuala Lumpur, Malaysia

Phone: +6017 777 5679

E-mail: [hajisep@gmail.com](mailto:hajisep@gmail.com)

Linkedin: [www.linkedin.com/in/saifulsayuti/](http://www.linkedin.com/in/saifulsayuti/)

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## OBJECTIVE

Short term: Offering high quality and first-class services to the customer, bringing the company to the top-class stage.

Long term: Reenergized and empowering in developing company's human capital towards company expansion.

## QUALIFICATIONS SUMMARY

20 years of management and technical experiences mixed in Telecommunications and Railway which efficiently skilled in Design, Interfacing, Project Implementation and Operation & Maintenance. Currently lead Backbone Transmission Network Systems Overall Works with All Systems Packages for MRT Sungai Buloh – Serdang - Putrajaya (SSP) Project.

## KEY EXPERIENCES

### **SAPURA RAIL SYSTEMS SDN BHD**

**09/2017 – Present**

#### **Manager, System Lead – Backbone Transmission Network (BTN) - KVMRT SSP Project**

Effectually pass the project milestone to make Fiber Optic Network and BTN serviceable for all interfacing systems and get all 13 Phase 1 Stations and Operation & Communication Centre connected. MRT Putrajaya Line.

### **LG CNS SDN BHD**

**06/2015 – 08/2017**

#### **BTN Manager – KVMRT SBK Project**

Successfully delivered stable, reliable and reputable Fiber Network, BTN and Comms System for MRT SBK Revenue Services and Operations. Integration and testing of AFC, CMMS, EAC and all systems with BTN and COMMS.

### **CMC ENGINEERING SDN BHD**

**03/2014 – 06/2015**

#### **Construction Manager – LRT KLJ Line Expansion Project (KLJ LEP)**

Effectively established construction and interfacing works for completion of Fiber Network, Comms and SCADA.

### **DIGICEL HAITI SA**

**01/2012 – 03/2014**

#### **Transmission Consultant – Digicel Transmission Network Project – Caribbean Region**

Completed Nationwide 450km Fiber Optic Backbone Project, Submarine Fiber Optic and GSM Mobile Transmission Backhaul for Haiti.

### **DIGICEL HAITI SA**

**12/2006 – 02/2009**

#### **Transmission Consultant – Digicel Mobile Communication Project – Caribbean Region**

Successfully design and build transmission network on fiber optic for 2G and 3G mobile systems in Haiti, nationwide.

### **ERICSSON HAITI**

**12/2006 – 11/2006**

#### **Transmission Engineer – GSM mobile Networks for Digicel**

Build up transmission network nationwide for new mobile network operator, Digicel in Haiti.

## EXPERTISE / KEY COMPETENCIES

- Lead overall activities in Fiber Optic Network and Backbone Transmission Network (BTN) system on Design and Interfacing with all system packages connected for Klang Valley Mass Rapid Transit Project (KVMRT) Sungai Buloh – Serdang - Putrajaya (SSP) under SSP SY206 System Packages and Sungai Buloh – Kajang (SBK).
- Lead on fiber optic and backbone network deployment for KVMRT Project both SSP and SBK with total distance of 110km fiber optic cable and for Digicel Haiti GSM Network backhaul (total of 450km Fiber Optic Cable).
- Developed and empowering a team in implementation, testing & commissioning of telecommunications network both in cellular and railway project.
- Manage and Coordinate implementation, testing, commissioning and O&M of Submarine Fiber Equipment and International Submarine Fiber Connectivity between Haiti to Dominican Republic and Jamaica (Colombus Fibralink).
- Plan, manage and perform Backbone and Transmission capacity planning, network design, re-engineering, migration, implementation, testing & commissioning and Operation & Maintenance of IP MPLS, SDH, PDH, DWDM, OTN, TDM, ATM, LAN, WAN and Fiber Optics elements for Haiti National Fiber Optic Roll Out.
- Integration and Testing of AFC Systems, EAC, CMMS with BTN for revenue in KVMRT SBK and for commissioning and testing in KVMRT SSP.
- Assist and consult Other Work Package System on interfacing and integration with BTN and other systems which are Signaling, Supervisory Control and Data Acquisition (SCADA), Power Distribution, Automated Fare Collection (AFC) and Electric Train (ET); CCTV, Radio System, PABX, ITS, PIDS, PA, Master Clock & Wireless Data Communication.
- Lead on Design of 1,382 BTN Installation Drawing for 2 Depots, 38 Stations, 28 TPSS and 32 Utility Building
- Lead Development documentation of total 129 Test Cases for Partial Acceptance Test, System Acceptance Test, Interface Test, Test Cases for Network Security Test and System Integration Test.
- Interfacing and consulting all 17 systems in KVMRT SSP connected to BTN in terms of protocol, bandwidth, integration and installation design for completion of 31 Sets of CSD, 9 BTN SAD, Preliminary Design Documents and Final Design Documents and 200 sheets of Final Design Drawings.
- Lead a team of 15 engineers, 4 vendors and 6 subcontractors with total strength of 60-manpower for overall activity from design and documentation review, delivery, installation, testing commissioning, acceptance and handover for Backbone Transmission Network (BTN) for Klang Valley Mass Rapid Transit Project (KVMRT) Sungai Buloh – Kajang (SBK) under SBK-007 Communication Packages.
- Lead and supervise operational activities of 522 switches and 40 routers along 60km of 144 core Fiber Optic Network for 17 Systems in MRT connected to BTN on giving services and access, interfacing with all connected work package contractor (WPC); attend and troubleshoot connectivity issues and lead a joint test.
- Lead Installation Team consists of 40-manpower for Light Rail Transit (LRT) Communication package (CCTV, Radio, Telephone, PA, PIDS, Backbone Fiber Optic), SCADA and PIES systems package in KLJLEP Project (LRT 2).
- Experienced working in both multinational and local company (Digicel, Ericsson, LG CNS and APEX Communications Sdn. Bhd.) with multiracial culture and in high pressure environment.
- Implementation, testing, commissioning and acceptance of equipment and NMS from multi-vendor such as Huawei, FiberWatch Fiber Optic Cable Monitoring System, Alcatel-Lucent, Nokia, Ericsson and Tellabs.
- Collaborate with vendors and contractors to achieve project target and produce analysis report with solutions proposal based on customer requirements

## WORKING EXPERIENCES

09/2017 – present

**Manager & System Lead - BTN**

**Mass Rapid Transit Project (Sungai Buloh – Serdang – Putrajaya Communications Package)**

Sapura Secured Technologies Sdn. Bhd., Kuala Lumpur  
Sapura - EVD Consortium (SECO)

- Lead Design and Implementation Team on Fiber Optic Cable deployment and build MRT Backbone Network.
- Lead BTN Team and interfacing with all systems connected to pass all the Gate and meet all the key date in the project milestone. Successfully completed design stage and all document submissions; Preliminary and Final Design Documents, Installation Design Drawing, CSD and SAD.
- Developed and delivered backbone fiber optic connection for Other Work Package System which are Signaling, AFC, CMMS, Power Distribution and ET.
- Assisting all work package contractor and systems connected to BTN in terms of integration, interfacing, port and bandwidth allocation, routing, equipment placement and in developing the System Architecture Design.
- Support and advice procurement, commercial and legal team on supplier and material submission for client approval and ordering process.
- To liaise and give technical advice / comment to Contract Commercial Department in claim, variation order, back charge and any other issue related to legal and commercial.
- Developed and trained new engineer to form internal group completing the network commissioning task independently with limited assistance from product vendor.

06/2015 – 08/2017

**BTN Manager**

**Mass Rapid Transit Project (Sungai Buloh – Kajang Communications Package)**

LG CNS (M) Sdn. Bhd., Kuala Lumpur  
APEX Communications and LG CNS Consortium (APLG)

- Lead overall activity from design and documentation review (Final Design), delivery, installation (PICO), testing (PAT), commissioning (SAT & SIT), acceptance and handover for Backbone Transmission Network (BTN) for Klang Valley Mass Rapid Transit Project (KVMRT) Sungai Buloh – Kajang (SBK) under SBK-007 Communication Packages.
- Lead and manage operational issue during installation, commissioning, and Defect Liability Period (DLP) on troubleshooting interconnection, integration & connectivity failure, low speed issue and mac-loop blocking problem.
- Collaborate with vendor to develop design, testing and acceptance documents. Review and responds to all clients for all drawings and documents to comply with contract and project requirement.
- Prepare and present updated technical and progress report periodically and as per requested by management, superior and client.
- Coordinate procurement & logistic team, sub-contractor and lead engineer in delivery, lifting and installation works.
- Design and proposed solutions for any anomalies between design and actual construction on site. Advice on design change based on site condition and advice on VO justification.

03/2014 – 06/2015

**Construction Manager**

CMC Engineering Sdn. Bhd.

**Kelana Jaya Line Extension Project for Prasarana Berhad**

- Lead installation team in managing, coordinating and supervising installation of Communication packages (CCTV, Telephone, Radio, CTN, PA, PIDS, Fiber Optic Backbone Cable) SCADA and PIES for Kelana Jaya Line Extension Project (KLJLEP) - systems for light rail transit (LRT).
- Supervising systems installation works and collaborate with facilities works contractor, suppliers, details design contractor, track & power works contractor, clients and safety authority to follow work program progressively smooth.
- Collaborate closely with Prasarana, Opus and Mott Macdonald on documentations, design, installation and test procedure, method statement to meet and comply with contract requirement.

01/2012 – 03/2014

**Transmission Consultant / DXX Expert**

Digicel, Haiti

**Transmission Networks, Haiti**

- Manage and Coordinate implementation, testing, commissioning and O&M of Haiti Underground and Terrestrial Fiber Optic Cable, Submarine Fiber Equipment and International Submarine Fiber Connectivity between Haiti to Dominican Republic and Jamaica (Colombus Fibralink).
- Digicel Haiti transmission backbone capacity planning, implementation, load balancing, re-engineering, expansion and migration activity based on network growth and optimization.
- Setup and organize a team to monitor Haiti National Fiber Optic Network using remote OTDR (FiberWatch) to isolate fiber break location, monitoring restoration and 24x7 surveillance.
- Migration and re-engineering of trunk in DXX8160, DXX8188, DXX6345, and DXX6350 from microwave backbone to use hybrid (microwave as working and fiber as protection).
- Submit regular report, solutions proposal, operations procedure and maintenance process documents for Operation and Maintenance of Huawei DWDM Network – OSN8800, OSN1800, OSN550, iManager U2000 Network Management System, Tellabs DXX Network, Alcatel Submarine Line fiber optics, Ericsson Minilink and fiber optic backbone

05/2011 – 01/2012

**System Engineer / NMS Expert**

Mesiniaga (M) Berhad, Kuala Lumpur

**Digital Data Networks (DDN) for TM Berhad**

- Manage and monitor day to day Operation and Maintenance activity of data networks equipment and NMS component, including upgrading of NMS, network expansion, alarm monitoring, Preventive maintenance, network re-engineering, site migration and rehomings.
- Assistance, consultation and supervised field engineer on troubleshooting the network, upgrade the nodes, maintenance of the network, testing and commissioning.

- Advise and submission of proposal on planning, implementation and monitoring of Tellabs DXX 8160, DXX 8120, DXX8188, Tellabs 8180, Tellabs DXX 6345, DXX6350, DXX6340, DXX6325 and Tellabs DXX 6320 network architecture, configuration, testing and commissioning.
- Prepare proposal and technical advice for new tender and new project on transmission network and operation and maintenance.

06/2009 – 01/2011  
**Program Manager**

Malaysia Insurance Institute (MII), Kuala Lumpur  
**Net-backup System, MII**

- Manage and Co-ordinate project planning, network & transmission design, delivery, implementation and commissioning.
- Study customer requirement to ensure the best solution is provided based on the budget and project timeline.
- Prepare the schedule for project, assigns responsibility for accomplishing all project tasks, executes, monitor, control the project, modifies the plan if necessary and ensuring project activities are carried out in a timely manner to evaluate it success.
- Collaborate and work closely with vendors and contractors to ensure the best solution and budget is provided for the project and customer.

12/2006 – 02/2009  
**Transmission Consultant / O&M Technical**

Digicel, Haiti  
**Transmission and GSM mobile Networks, Haiti**

- Co-ordinate Operation and Maintenance activity between transmission and other departments to achieve 99% network availability as per management objective.
- Develop and improve processes, workflow, systems, tools and services to enhance efficiency in fault restoration, network expansion and team development.
- Coordinate the activities of on-site teams and provide guidance when required. Coordinate with inter-department for BSC re-homing, Debugging and migration process.
- Successfully trained local engineer transferred the technical knowledge and expertise in Tellabs Network and Equipment, GSM Network, PDH, SDH, DWDM, Ethernet and NMS to handle day to day activity, installation, configure, testing, commissioning, troubleshoot fault and perform cut-over, re-homing and migration.
- Integration of new RBS site, re-homing, re-engineering, migration activity and MUX plan modification based on Network growth.
- Raised up issue, follow up CSR and work with Ericsson to solve a problem regarding transmission network and site availability.
- Configuring and troubleshoot and Ethernet VLAN, RSTP, bridging, Layer 2 and CoS/QoS for carrier Ethernet technologies
- Migrated active network from TDM to Ethernet Backbone Network to Integrate inter-connection between BSC, MSC, Minilink and Routers.

6/2006 – 11/2006

**Transmission Engineer**

Ericsson, Haiti

**GSM mobile Networks for Digicel**

- Installation, configuration, testing, commissioning and acceptance of Tellabs DXX 8160, Tellabs DXX 6345, DXX6350 and Tellabs DXX 6320 nodes.
- Technical Support in operations and maintenance for Tellabs DXX and inter-connection equipment after commissioning and acceptance test successful.
- Successfully completed network migration and integration for ATM over SDH and Ethernet over SDH.

/2000 – 6/2006

**Assistant Manager / Senior Engineer**

APEX Communications Sdn. Bhd.

**Digital Data Networks (DDN) for TM Berhad (TM)**

- Assistance in all day-to-day operation and maintenance on Telekom Malaysia DDN and represent APEX in TM NOC for on-site assistance and support.
- Trained and Transfer of Knowledge to TM DDN Operations & maintenance team (day to day operations / back office) and provide technical support to customers through remote and attending on-site troubleshooting.
- Proactively identify and close Fault Ticket and effectively deployed the solution according to timeline and set appropriate customer expectations and fulfill customer commitments.
- Setup NMS Centre and test lab for TM Tellabs DDN Network and APEX Testing and Training purposes. Installation of Servers, Switch, Communications Nodes and NMS application.
- Installation, configuration, testing and commissioning of Tellabs DXX 8160, DXX 8150, DXX8120, DXX 6340, DXX 6345, DXX6350 and DXX 6320 nodes on field and in NMS.
- Create the backbone and access network for Malaysian Digital Data Networks which is connected by STM-64, STM-16, and STM-1 and 2MB trunk.
- Acquire and maintain current knowledge of relevant product offerings and support policies in order to provide technically accurate solutions to customers.
- Participate in team projects that enhance the quality or efficiency of support service.
- Successfully completed NMS ATP Migration for New release and integration for Third party Equipment.
- Research, test and propose integrations possibility/compliance between Tellabs and another customer's equipment. (e.g.: Tellabs 6340 – Marconi nodes)

4/1998 –2/2000

**Network Engineer**

C. K. Teknik (M) Sdn. Bhd.

**CMDF migration Project for Malaysia Airport Berhad (MAHB)**

- Planning for KL International Airport (KLIA) network migration activity, to migrate the active circuit and active network equipment to a Common Multi Distribution Frame building.
- Migrate and re-home live and active circuit and equipment in KLIA TAMS Network with zero downtime. Installation, testing and commissioning of new Newbridge Network equipment after migration exercise and implementation.

**SYSTEMS**  
**EXPERIENCES**  
&  
**PROFICIENCIES**

- Tellabs NMS 8100 R17A, R15, INM 4.0
- Tellabs LCT and Service Computer
- Sun Solaris and LINUX
- SYBASE
- Microsoft Windows
- Minilink TN LCT
- Service on Microwave
- Service on Element Management
- Huawei iManager U2000
- Alcatel 1353 NM 7.4
- Alcatel 1354 SN 8.0
- Alcatel Lucent 5620 SAM
- FiberWatch RFMS V4.2.2
- Visio Drawing
- Microsoft Project
- Microsoft Office
- NMS Tool

**EQUIPMENTS**  
**EXPERIENCES &**  
**PROFICIENCIES**

- OTDR to isolate and identify location of fiber break. Test Gear - JDSU MT8000 SDH and Ethernet Analyzer (STM-64 and 10GBe), JDSU MT8000 Optical Spectrum Analyzer.
- Tellabs DXX8100 Network Manager, Tellabs 6300 Craft Terminal, Service Computer, Servers installation and application use.
- Technical hands-on experience in Tellabs 8100 & 8800 and Tellabs 6300 Product family (nodes / subracks) installation, configure, testing and commissioning and fault troubleshooting.
- Huawei iManager U2000 Network Management System, OSN8800, OSN1800, OSN550.
- Alcatel SLTE 1620 R3.8 LM, Alcatel PFE (for Submarine Fiber)
- Nokia 7750 SR, 7210 SAS, 6450 Omniswitch

**EDUCATION**

- 1995 – 1998 University Kebangsaan Malaysia (UKM) Bangi, Selangor  
**Bachelor of Information Technology (Hons.), Major in Computer Science**
- 2012 ALCATEL LUCENT University, Miami USA  
**Diploma – Major in courses of FIBRALINK LINE (Submarine Fiber Optic Network)**
- 2001 Tellabs Asia Pacific Training Center, Singapore  
**Martis DXX System Course (SDH, PDH, Fiber Optic and DWDM)**
- 2016 Nokia Training Center, Kuala Lumpur, Malaysia  
**Nokia System Course (IP/MPLS, NMS, Service Router)**
- 1988 - 1992 Sekolah Menengah Sains Tengku Abdullah, Raub Pahang  
**Sijil Pelajaran Malaysia (SPM) & Sijil Rendah Pelajaran (SRP)**

**REFERENCES**

- Mohd Azhar bin Abdullah (Installation Manager – KVMRT SSP Project)  
Sapura Rail Systems (Hp: + +60 10-210 7052) EMAIL: mohdazhar.abdullah@sapura.com.my
- Rashdan Che Abdullah (Head of Communications Systems)  
MRT Corporation Sdn. Bhd. (+6013 – 360 6949) EMAIL: rashdan.abdullah@mymrt.com.my
- Mohd Khalis Mohd Yasin (Interface Manager – Sarawak Metro Project)  
Sarawak Economic Development Corp (+6013 – 355 9151) EMAIL: [khalis.yasin@sedc.my](mailto:khalis.yasin@sedc.my)