

RADIO BROADCASTING: BEHIND THE SCENES

A Day in the Life of a Broadcast Engineer with Mohamed Syafiruden at SPH
Media

DAILY OPERATIONS AT SPH MEDIA NEWS CENTRE



MORNING ROUTINE AT NEWS CENTRE

The day begins at the **SPH Media News Centre**, a bustling hub for radio and print media in Singapore.

The first essential task for a broadcast engineer like Mohamed is **monitoring communications**. This involves checking emails and responding to technical inquiries to ensure all stations are ready for live broadcast.

- Priority support for live studios
- Technical coordination meetings
- System status verification



CORE RADIO STATIONS



MONEY FM 89.3

Singapore's first business and personal finance radio station.



KISS 92 FM

Targeted at modern women and families with lighthearted entertainment.



UFM 100.3

A popular Chinese station delivering news and music.

THE PRODUCTION NERVE CENTER



PRODUCER ROLE & WORKSPACE

The producer's desk is a unique mix of high-tech gear and personal flair. It serves as the primary coordination point between on-air talent and technical staff.

Key activities include:

- Managing the broadcast schedule
- Overseeing live segments and guest arrivals
- Real-time troubleshooting of sound issues

JOURNEY OF A RADIO SIGNAL

1. STUDIOS

Audio is captured by DJs and guests using professional mics.

2. MIXERS

Levels are adjusted and music/jingles are mixed in.

3. SERVERS

The audio signal is processed and encoded for transmission.

4. TRANSMITTERS

Signal is broadcast from Bukit Timah to your radio.

SIGNAL PROCESSING DETAILS



CAPTURE

High-fidelity recording in acoustically treated studios ensure crystal clear talk sets.



AUDIO MIXING

Precision control of faders and hotkeys to manage the flow of the broadcast.



PROCESSING

Digital servers handle signal routing, compression, and distribution.

TRANSMISSION HUB

BUKIT TIMAH INFRASTRUCTURE

From the central server room, the signal travels to powerful transmitters located at **Bukit Timah Hill**.

This elevated location allows for maximum coverage across the island, ensuring the signal reaches every car and home radio/tuner with minimal interference.



LEADERSHIP & TEAM



LEO, HEAD OF SHARED SERVICES

Leo oversees the "Radio Shared Services" team, consisting of 7 dedicated specialists who maintain the backbone of SPH Media's radio operations.

The team's focus:

- Ensuring 24/7 FM transmission uptime
- Technical maintenance of studio equipment
- Rapid response to equipment failure

ENGINEERING RESPONSIBILITIES

MAINTENANCE & SUPPORT

The team is responsible for the health of servers and consoles. They perform regular health checks and software updates to prevent broadcast drops.

"Our primary role is to troubleshoot as efficiently as possible."

OUTDOOR BROADCASTS

For events away from the studio, the team sets up a mobile broadcast environment. This replicates studio quality on-site for live coverage of festivals or news events.

TECHNICAL SUPPORT IN ACTION



SERVER MAINTENANCE

Managing complex wiring and digital infrastructure.



ELECTRONICS REPAIR

Precision soldering and hardware fixes in the lab.

ANY QUESTIONS?

Thank you for exploring the world of radio broadcasting and engineering.

Mohamed Syafiruden

Broadcast Engineer | SPH Media

IMAGE SOURCES



<https://static.sph.com.sg/uploads/2023/03/sph-contact-us-our-office-news-centre.jpg>

Source: www.sph.com.sg



https://www.gbsalliance.com/template/gbs/uploads/files/page/46/big_222_5.jpg.jpg

Source: www.gbsalliance.com



https://www.lemon8-app.com/seo/image?item_id=7581068307420168722&index=2&sign=0bff960c75e67b2a7e58f0e0acf5aca0

Source: www.lemon8-app.com



https://static.mytuner.mobi/media/tvos_radios/T6JacQ4RDk.png

Source: www.radio-singapore.com



<https://i5.walmartimages.com/asr/9920dda4-9503-4e9b-9839-aebaf4dfe00f.ee23883b527c443bb758fb2f26f1a53d.jpeg?odnHeight=768&odnWidth=768&odnBg=FFFFFF>

Source: www.walmart.com



<https://preview.redd.it/bukit-timah-hill-transmission-tower-singapore-v0-e4ujjyeaxjb1.jpg?width=640&crop=smart&auto=webp&s=8995db25cabfb5d6c35398b9b3032a05787d0b58>

Source: www.reddit.com

IMAGE SOURCES



<https://images.immediate.co.uk/production/volatile/sites/3/2025/10/rick-edwards-1b42921.jpg?quality=90&resize=980,654>

Source: www.radiotimes.com



<https://ittechinc.com/wp-content/uploads/2024/12/network-installation-troubleshooting-server-setup-scaled.jpg>

Source: ittechinc.com



https://elements-resized.envatousercontent.com/elements-video-cover-images/files/513afd11-92ad-4dd6-88f9-ae3273e6157e/inline_image_preview.jpg?w=500&cf_fit=cover&q=85&format=auto&s=7ee8c3256501d670db9136e32c0262060e1374f391eb43ce2be8e647ee9a80d5

Source: elements.envato.com