

AMINUL ISLAM

20+ Years Broadcast Engineering & IT Operations | Specialist in Broadcast Automation Solutions & Control Systems | Python Developer | Bridging Media & Technology

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PROFESSIONAL SUMMARY: Strategic Broadcast Engineering leader with over 20 years of experience ensuring 99.9%+ uptime for 24/7 television production facilities. Expert in the full lifecycle of broadcast control systems (AVECO, Harris, Imagine)—from integration and optimization to developing custom automation solutions. Proficient in developing comprehensive technical documentation and leveraging Python to build robust scripts that eliminate manual processes. Driving the integration of Industry 4.0 principles to bridge broadcast operations with modern technology, achieving unprecedented gains in operational efficiency and system resilience.

TECHNICAL SKILLS

- **Programming & Scripting:** Python, HTML, Bash, OS Scripting
- **Python Libraries:** pandas, openpyxl, pathlib, subprocess, logging
- **Broadcast Control Systems:** AVECO, Harris ADC, Imagine D-Series / Selenio
- **Systems & IT Infrastructure:** Linux, Windows Server, macOS, Networking
- **Media & Utilities:** OBS Studio, FFmpeg
- **Development Tools:** Git, GitHub, VS Code, PyCharm
- **Core Expertise:** Automation Solutions, Production Facilities Management, System Integration, Technical Documentation, Industry 4.0 Technologies (IoT, Data-Driven Operations)

WORK EXPERIENCE

Senior Executive Ingest – Broadcast Engineering Operations & IT.

Nagorik Television, Dhaka, Bangladesh — Apr 2017 to Aug 2024

- Oversaw the core broadcast control systems (Imagine Automation) within the central production facility, achieving 99.9% on-air availability for the 24/7 channel.
- Designed and implemented Python-based automation solutions for content scheduling and system health checks, reducing manual intervention by 70% and creating a more resilient operational workflow.
- Authored comprehensive technical documentation for system protocols and troubleshooting guides, standardizing knowledge across the engineering team.
- Pioneered the adoption of Industry 4.0 technologies by implementing data logging and system analytics, enabling proactive monitoring and laying the groundwork for predictive maintenance of broadcast equipment.

Senior Executive – Broadcast Engineering & Operations.

Boishakhi Media Ltd., Dhaka, Bangladesh — Jan 2010 to Sep 2015

- Managed the entire broadcast Playout workflow, including Harris automation control systems, within the main production facility to ensure seamless daily transmission.
- Spearheaded the development of scripting automation solutions for content ingest and scheduling, boosting operational efficiency by 30% and virtually eliminating manual errors.

Head of Broadcast & Technical Operations.

1-TV Media, Kabul, Afghanistan — Oct 2013 to Apr 2014

- Directed all technical operations for the production facility, guaranteeing stable 24/7 transmission of critical broadcast control systems in a high-stakes environment.
- Mentored and trained a team of 5+ technical staff, developing **technical documentation** and best practices for media automation, which slashed on-air errors by 20%.

Senior Executive, Ingest & MCR-Broadcast Engineering & Operations.

Diganta Media Ltd., Dhaka, Bangladesh — Jan 2008 to Dec 2009

- Managed and maintained the AVECO control systems and developed workflow automation solutions, ensuring error-free Playout and upholding high broadcast standards for the production facility.

Executive Ingest- Broadcast Engineering & Operations.

Bangla Vision, Dhaka, Bangladesh — Sep 2005 to Dec 2007

- Operated and maintained AVECO broadcast control systems, developed initial Python automation solutions for file management, ensuring seamless operations within the broadcasting production facility.
- Collaborated with IT on system integration projects, contributing to technical documentation for improved operational workflows.

EARLY CAREER

System Engineer & Communications Roles | Speed Technology & Engineering Ltd. / BRAC | Dhaka, Bangladesh — 2000 to 2005

- Gained foundational experience in IT systems support and corporate communications, building a versatile skill set later applied to broadcast engineering.

PROJECTS

Broadcast Automation Integration Script:

- Engineered a Python-based automation solution to manage critical broadcast workflows, including content scheduling, file transfers, and system health checks.
- Reduced operational errors by 70%; improved uptime.

Log Monitoring & Alerting Tool:

- Developed a proactive monitoring solution using Python and regex to parse system logs and trigger automated alerts.
- Improved issue detection speed, reducing downtime by 50%.

Network Diagnostics Utility for Broadcast IT:

- CLI tools with Python/Bash for network diagnostics and bandwidth monitoring.
- Enhanced network reliability and early issue detection.

EDUCATION

- MSS in Social Welfare — National University, Gazipur, Dhaka, Bangladesh, 2000. |
- Higher Diploma in Computer Science & Engineering — (BTEB), Dhaka, 2005.

CERTIFICATIONS

- 100 Days of Code: The Complete Python Pro Bootcamp. (Udemy) — 2024.
- Python Scripting for System Administrators (Coursera) — 2024.
- Broadcast Engineering & Automation — NIMC, 2010 (Dhaka, Bangladesh).
- Communication Training — BRAC, 2000 (BRAC Training and Resource Centre, Pabna, Bangladesh).

LANGUAGES

- Bengali: Native.
- English: Professional proficiency.
- Hindi: Basic.