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Professional Summary

Highly experienced engineer specializing in the creation, conversion, analysis, and validation of media assets—including video, audio, closed captioning, and multilingual subtitling. Proven expertise in supporting linear, non-linear, VOD, live streaming, and legacy analog systems. Subject matter expert in all captioning and subtitle formats and workflows. An innovative problem-solver focused on delivering high-performance, cost-effective solutions for media asset creation.

Skills

Media Encoding & Transcoding

- Asset ingest, processing (transcoding), delivery --> *Video, Audio, Timed-Text (captions/subtitles-MLS)*
- Preset/profile authoring for cloud and on-prem environments (UHD, HD, SD; SDR & HDR)
- SME in *AWS Elemental MediaConvert* and *Dolby Hybrik* (audio conversions)
- Experience with Dolby Vision tools and advanced encoding workflows
- Command line proficiency (MAC, Linux-BASH)
- Proficiency with VOD, broadcast, and live streaming workflows
- Deep knowledge of closed captioning/subtitling/timed-text formats, creation, conversion, compliance

Compression & Streaming

- Proficient with H.264/AVC, H.265/HEVC, ProRes, J2K, MP4, MPEG-2, QT, MXF (and more)
- Experienced with streaming media protocols and compression technologies

Technical Solutions & Processing Optimization

- Work-around development in complex technical environments
- POC creation, project documentation, and replication processes
- Processing analysis, design, and optimization for cost efficiency
- Tools: FFMpeg, FFprobe, MediaInfo, Switch, Wirecast, Final Cut, Apple Compressor, Premiere Pro, WireShark
- Tools: Closed Caption Converter, Ooona (API, CLI, GUI), Adobe Media Encoder, Premiere Pro

Cloud, SaaS, & API Integration

- Familiar with SaaS workflows and API-based media platforms
- Experience with AWS storage (S3) and media streaming pipelines

Support, Operations & Engineering

- Technical support, troubleshooting, ticketing (Atlassian Jira) and documentation (Atlassian Wiki)
- Cross team/platform collaborations.
- Liaison with broadcast clients; experienced in broadcast facility operations

Additional Competencies

- Strong verbal, written, and interpersonal communication skills (technical, business, C-level)
- Webcasting platforms, streaming appliances, and legacy video tape workflows
- Team-oriented, culturally competent, and solution-focused professional

Employment History

Systems & Media Engineer III (Remote)

12/2020 – present

Warner Brothers Discovery (WBD), New York, NY

- Responsible for media asset creation, including encoding, transcoding, and analysis for video, audio, and captions. UHD (HDR), HD, SD.
- Design, analyze, and optimize asset transcoding profiles and presets; support workflows via AWS and SDVI Rally.
- Onboard new partners/clients and provide ongoing support for existing partners.
- Ensure compliance with partner deliverables and industry standards/specifications.
- Act as AWS liaison for bug resolution and feature implementation.
- Analyze and support all closed captioning and subtitling formats (e.g., SMPTE-TT, Rosetta, SCC, PAC, WebVTT).
- Technical support for media asset issues including audio, video, captions/subtitles and ad spot markers (EASM).

- Collaborate with cross-functional teams to support code development, debugging, QA, and release cycles.
- Deliver project management support to ensure successful planning, execution, and product delivery.
- Develop and implement new technologies and techniques to improve workflows and increase efficiency.
- Produce technical documentation, conduct knowledge transfer, and provide team training.
- Maintain 24/7/365 availability to support global teams (NA/NAM, LATAM, EMEA, APAC).

Live Streaming Solutions & Sales Engineering Facilitator

2015 – 10/2020

Speed-WP, Inc., Tokyo, Japan

- Pioneered the delivery of live English closed captioning for an all-Japanese broadcast—first of its kind in Japan.
- Established Speed-WP's presence in the U.S.; forged strategic partnership with a U.S.-based caption service provider.
- Engineered technical components of the streaming media solutions and sales process, providing both pre- and post-sales support.
- Designed and implemented live, low-latency, and reliable streaming media systems—handled end-to-end: design, evaluation, coding, testing, installation, and iterative improvement.
- Served high-profile clients including NHK, NNN News 24, NTV, News Zero, News 7, and Paul McCartney; selected as NHK's caption service provider for the 2021 Tokyo Olympics.
- Cultivated global business relationships and generated opportunities across the U.S., U.K., Spain and Asia.
- While captioning was the primary deliverable, robust live streaming media infrastructure was the backbone of the overall solution.

Chief Engineer, Technical Operations & Engineering (with Sales Support)

1998 – 2015

VITAC Corporation, Pittsburgh, PA

- Closed captioning and subtitling service provider offering live and pre-recorded caption encoding services.
- Ensured 24/7/365 uptime of facility and Technical Operations Center, including power systems (raw, UPS, generator), HVAC, satellite dish farm, servers, and ISP's.
- Managed day-to-day technical operations and support, including caption and media delivery.
- Designed and implemented the industry's first live video streaming system to support remote live captioning.
- Created and operationalized the concept of the live *Remote Captioner* (RC), utilizing stenographic and voice captioning methods.
- Provided pre- and post-sales technical support to clients and internal stakeholders.
- Improved workflow efficiency and reduced operational costs by 33%; contributed to a 200% increase in EBITDA.
- Transitioned caption encoding services from tape-based systems to fully non-linear workflows.
- Developed disaster recovery protocols; implemented remote monitoring and alerting for mission-critical systems.

PBS, Washington, DC

pre 1998

- Early HD development: ATTC and ATSC standards; VBI data delivery systems and PBS DACS integration.

Soft Touch, Washington, DC

- *CCE/PC, CCE+* Closed Caption Encoder Card for PC. *Hubcap* closed caption/XDS decoder & Data recovery.
- Broadcast Engineering's NAB Pick-Hit selection.

Education

Pittsburgh Technical College, Pittsburgh, PA

AS, Electronics Engineering Technology, Distinguished Alumni

George Washington University, Washington, DC

Electrical Engineering

Additional Information

Awarded U.S. Patent; multiple provisional patents filed.

Holder of FCC licenses and certifications.

Professional references available upon request.