



# Behind the Scenes of RMHam-U Video Production

Dave Maciorowski, WA1JHK, [wa1jhk@arrl.net](mailto:wa1jhk@arrl.net)  
Mark Skelton, N7CTM





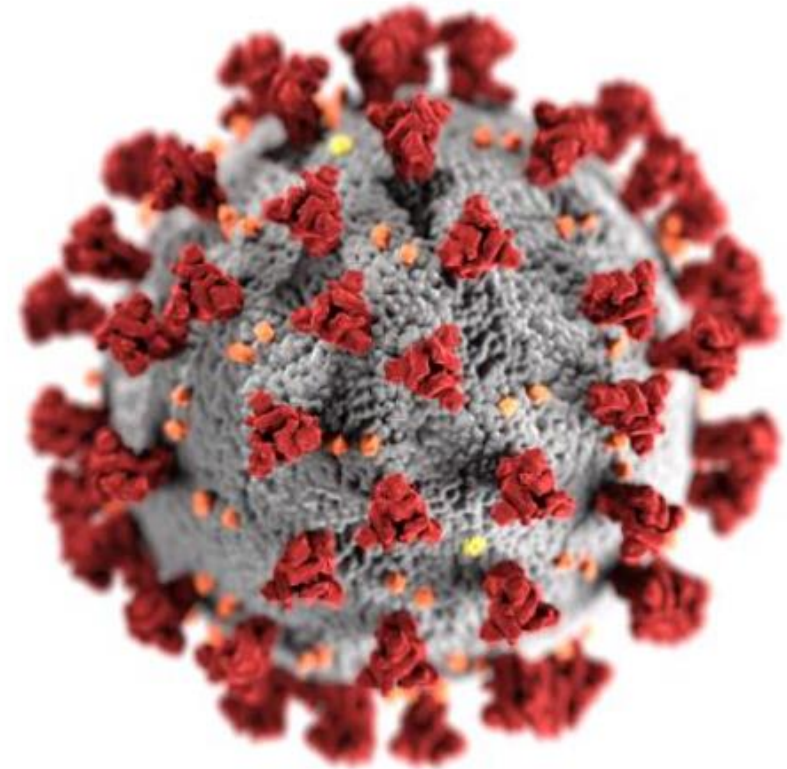
# References

- RMHam-U Nerdfest 2021 Presentation, Open Broadcaster Software
  - <https://www.youtube.com/watch?v=UjA9gk-GLG8>
- vMix Website
  - <https://www.vmix.com>
  - <https://www.youtube.com/@vMixhd>
- Behringer Audio Mixer
  - <https://www.behringer.com/behringer/product?modelCode=P0BI7>
- Elgato Stream Deck
  - <https://www.elgato.com/en/stream-deck-xl>



# Topics

- Where It All Started
- Challenges
- What We're Doing Now
- What's Next
- Walking Tour





## Some History – Willem's Studio





# Challenges

- Equipment Setup Time and Complexity
  - Too Many Cables and Loose Parts
- Flakey Video Capture Cards
- Inconsistent Configuration
- Inflexible Audio Configuration
- OBS Studio Instability
- Lower-Thirds Created Externally
- IP Network, Firewalls



# Where It All Started

- Used What We Had
  - Good Enough Computer
  - Audio Mixer
  - Wireless Microphones
  - ZOOM
  - OBS Studio (Open Broadcaster Software)
  - USB Capture Card
  - Elgato Stream Deck



## Some History – Willem's Studio



- Video
  - PTZ Camera
  - DSLR Camera
  - Video Conf Camera
  - Cell Phone Cameras





# Some History – Willem's Studio



## Two Systems

- Audio
- Video

## User Interfaces

- Audio Rack
- OBS Studio SW
- Stream Deck
- Wireless Mics
- Zoom





# Some History – Willem's Studio





# Some History – Willem's Studio







# Some History – Back in the Classroom



## Video System

- OBS Studio  
(Open Broadcaster  
Software)



# Some History – Back in the Classroom





# What We're Doing Now

- FAST Computer
- Audio Mixer
- Wired and Wireless Microphones
- vMix Live Production and Streaming Software
- Stream Deck 32-Key Hotkey and Status Keypad
- Increased Use of NDI
- Green Screen
- Zoom
- Youtube





# What We're Doing Now

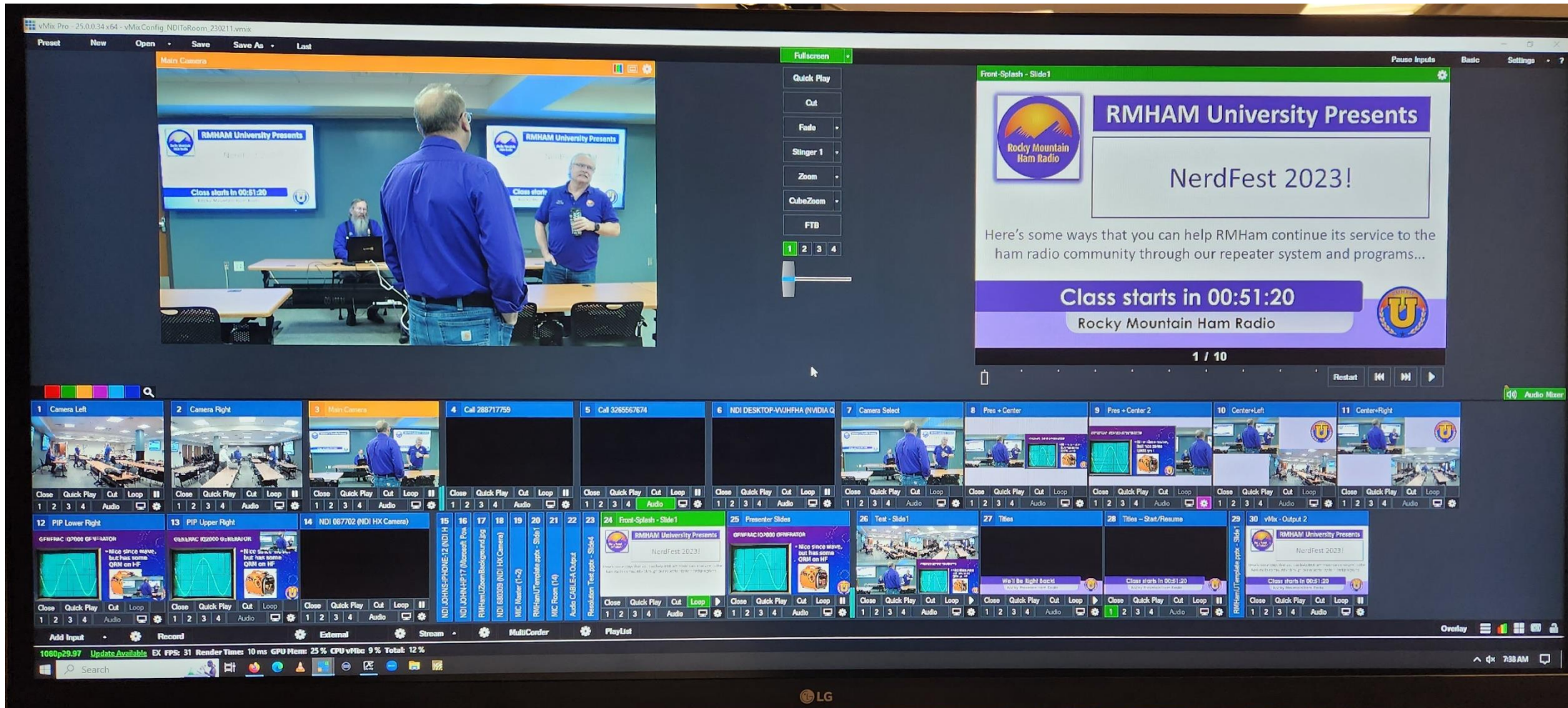


- Two Systems
  - Audio
  - Video (HDMI, NDI, SDI)
- User Interfaces
  - Audio Rack and SW
  - vMix SW
  - Stream Deck
  - Keyboard, Mouse, Mic, Headphones





# vMix Live Production and Streaming Software





# vMix Live Production and Streaming Software



- Title Control
- Audio Mute/Unmute
- Status Lights
- Source to Preview
- Fade Preview to Output
- Source to Room



# Live Video Tour...



# What's Next

- More Use of NDI
  - Reduces Setup Time
  - Improve Support for Remote Presenters
- For Tech Talks
  - Green Screen
  - Lighting
- ??



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# Questions?





THANK YOU!!!