# Blake R. Carrasco *LED / Video Engineer*

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## *Objective*

— I am an experienced LED engineer looking to expand my skillset beyond live events. I am pursuing opportunities into other applications of LED, including studio XR LED sets and LED installations. I also want to gain more experience in the fields of video engineering, computer graphics, and video over IP systems.

## *Professional Experience*

### LED / Video Engineer & LED Repair Technician
@ OSA International Inc. — Full-Time
Las Vegas, NV
2016 - Present

— Responsible for managing LED projects from inception to strike. I am involved with several aspects of pre-production including drafting, calculating system specifications, compiling inventory pull-lists, and coordinating on-site logistics. During production, I lead our on-site team in the construction and setup of complete LED wall systems through show and into strike/load-out.
— Experience calibrating LED walls to meet specific color and white point requirements. Utilizing colorimeters and calibration software, I am able to accurately measure and modify the color output of LED walls to client specifications.
— Experience setting up various video production systems; such as, Blackmagic/Ross video switchers, Spyder X80, Barco E2, HDMI/SDI routers, and NDI systems. Common tasks included routing/distributing video using copper and fiber-optics, troubleshooting video artifacts, ensuring correct video formats/colorspaces, wiring rackmount equipment, and more.
— Performing board-level LED repairs and complete LED maintenance. I ensure that our LED product is serviced to provide the highest quality end product to our clients.

### A/V Stagehand
@ Various Local A/V Companies — Freelance
Las Vegas, NV
2013 - 2016

— Assisted with A/V tasks during load-in and strike of large scale productions on/off the Las Vegas Strip. Some of these tasks included, setting up LED walls, operating cameras, running cables for audio/video/lighting, and generally helping with whatever is needed to make the show successful.

## *Professional Projects* *(additional projects available upon request)*

### Mercedes-Benz National Dealers Meeting 2021
October 2021

— Served as Lead LED Engineer, managing the design and construction of 1 flown LED wall for the main presentation stage. Utilizing Absen CF2.6mm LED tiles, the wall spanned 80ft wide by 20ft tall. I used Novastar MCTRL4K's for video processing, which were sent 7 discrete, custom resolution, outputs from a Spyder X80 at 10-bit color depth. I used single-mode fiber interconnect from the processors in video village to the LED wall via Novastar CVT4K-S Receivers. I also calibrated the wall with a file that I had created pre-show using a Klein K-10A Colorimeter. This calibration was targeting the Rec.709 gamut and a 5600K white point

### Best Western National Conference 2021
October 2021

— Served as Lead LED Engineer, managing the design and construction of 2 curved, ground supported, LED walls for the main presentation stage. The ground support system required precise levelling, angling, and tile fitment. The walls spanned 160ft wide by 15ft tall, and used Absen CF2.6mm LED tiles. I used Novastar MCTRL4K's for video processing, which were sent 4 discrete, custom resolution, outputs from a Barco E2 at 8-bit color depth. I used single-mode fiber interconnect from the processors in video village to the LED walls via Novastar CVT4K-S Receivers. And calibrated the wall targeting the Rec.709 gamut and a 5600K white point

### McDonalds Investors Broadcast 2020
November 2020

— Served as Lead LED Engineer, managing the design and construction of 3 curved, ground supported, LED walls within a studio set for the main broadcast. When building I took careful consideration to make sure each wall was built specifically to fit within a custom scenic structure. I set up processing for this wall using Novastar MCTRL4K's being sent 4 discrete outputs form a Spyder X80. After construction, I examined the entireity of each wall to replace LED modules with broken pixels. Then, I applied custom color calibration and performed software seam adjustment optimized for specific camera angles.

### Google Accelerate 2020
January 2020

— Assisted in setting up 3 flown LED walls, 1 for the main keynote stage and 2 offstage. Utilizing ROE CB3-X 3.125mm LED tiles, the keynote wall measured 63ft wide by 36ft tall, and the offstage walls measured 35ft wide by 20ft tall. Each wall required a rounded corner look. We used custom 1/4 cirlcle CB3 tiles to achieve this effect. Video processing was handled by Bromton SX-40's being sent 8 outputs from a Spyder X80. We distributed signal to the walls using fiber-optics and Brompton XD boxes.

## *Education*

**College of Southern Nevada** — *Major: Mathematics (Did not finish)* 2012 - 2014

**Spring Valley High School** — *Graduate (Class of 2012)* 2008 - 2012

## *Skills / Hobbies*

• LED Video Walls • Video Signal Analysis • Vectorworks • Mac/Linux/Windows • Color Science • IT/Networking • Illustrator/Photoshop • Video Playback • Electronics Repair • Fiber Optics • Music Production • GPU Shaders • Video Game/Software Development •