

Classroom Technology **Or: How I learned to Stop** **Worrying and Love A/V**

OIT Behind the Scenes

Webinar Series



Setting Expectations



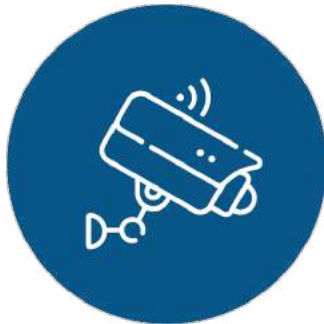
Lights!

- Camera & Audio



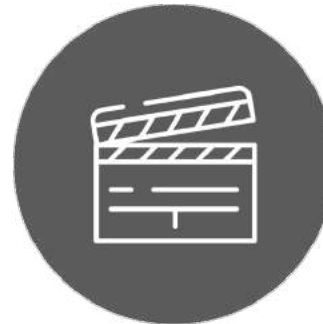
Action!

- Participatory Activities



Camera!

- Recorded Session



Cut!

- Q & A

TODAY'S AGENDA

- Overview of technology integration in Classrooms
- About our service and delivery model
- How technology impacts Audio Visual (AV) support, design, and intersects with teaching
- Spotlight current state of technology in some of the UC Merced's classrooms

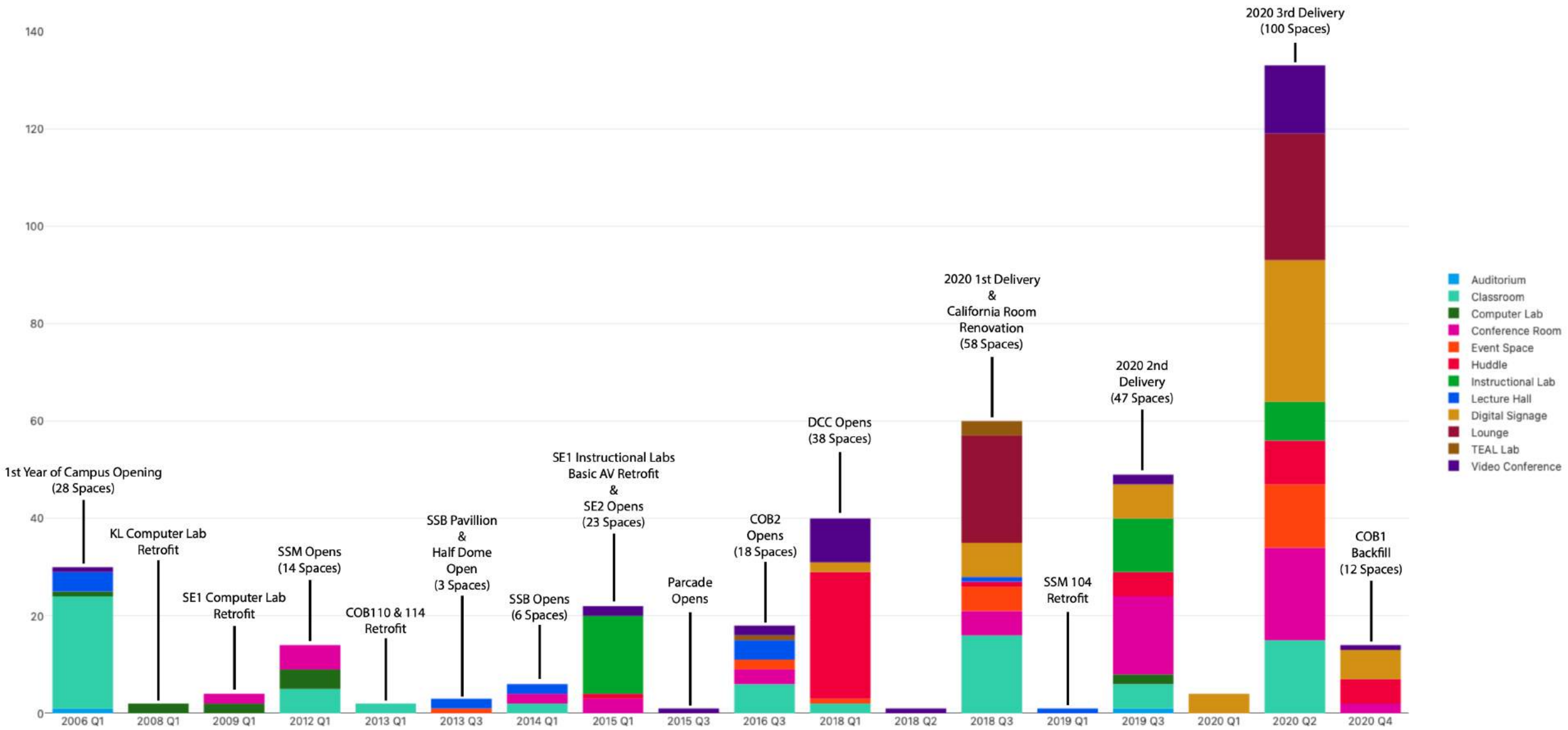
Classroom Technology & A/V Support Overview

- **143 Academic Spaces**

- 2 Auditoriums
- 76 Classrooms
- 8 Computer Labs
- 35 Instructional Labs
- 14 Lecture Halls
- 4 TEAL Labs

- **267 Non-Academic Spaces**

- 58 Conference Rooms
- 45 Digital Signage Locations
- 13 Event Spaces
- 49 Huddle Rooms
- 48 Lounges
- 33 Video Conference Rooms



Classroom Technology & A/V Support Overview

DO

- Support clients use of the technology
- Maintain installed A/V
 - Operations
 - Repairs
 - Documentation
 - Minor Configuration Changes
- Consult on A/V Engineering & Design

DON'T

- Engineer A/V
- Install A/V
- A/V Outside of Campus Standards

Jodon Bellofatto

Technology Enhanced Spaces, Lead Analyst

- From Maryland (*Best state flag. Don't at me.*)
- Nerd & Geek
- Gamer (*Any and all platforms*)
- Baseball (*Go Orioles? *sigh**)
- Music (*currently learning guitar*)
- Sci-Fi (*Star Wars or Star Trek? Both.*)
- Disneyland (*I know. I'm just as surprised.*)



Canaan Hawks

Technology Enhanced Spaces, Technician

Start Date: September 2019

Duties Include:

Incident ticket response & delegation

Warehouse organization & inventory

Leading Audio Visual Surplus/eWaste processes

Creating graphical assets for projects



Hobbies / Interests





Ernie Montoya

CLASSROOM TECHNOLOGY SPECIALIST



- began working for UCM in June of 2016
- Krispy Kreme is my kryptonite and I'm a Star Wars fan
- Enjoys spending time with family and foster kids

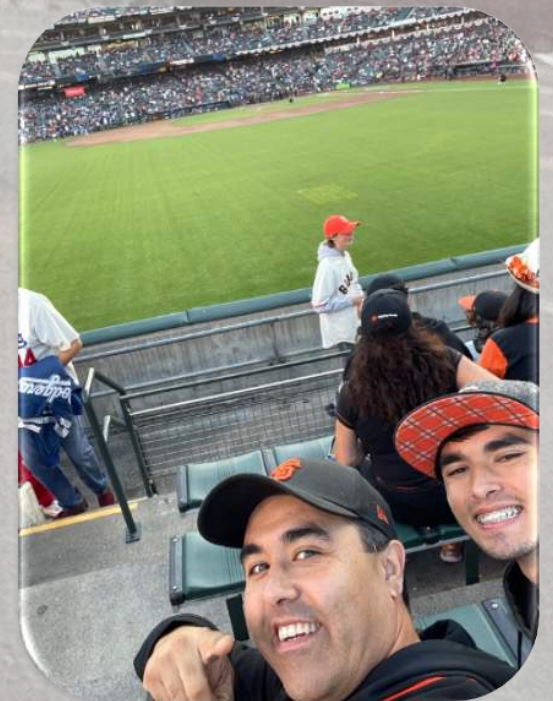




Luis Zuniga

Classroom Technology Specialist

- Hired in March 2020
- Born and Live in Modesto
- Family and Friends
- Sports Junkie, Music and DIY Projects





Service Delivery

Ernie Montoya

Classroom Technology Specialist

Solving vs Fixing

- Solving the problem
- Fixing the problem

UNIVERSITY OF CALIFORNIA
MERCED
BUILDING THE FUTURE IN THE

Minimizing disruption to instruction

- Sweeps
- Emergency Equipment



We approach service holistically

- Problems in the room
- What we don't control



Spaces

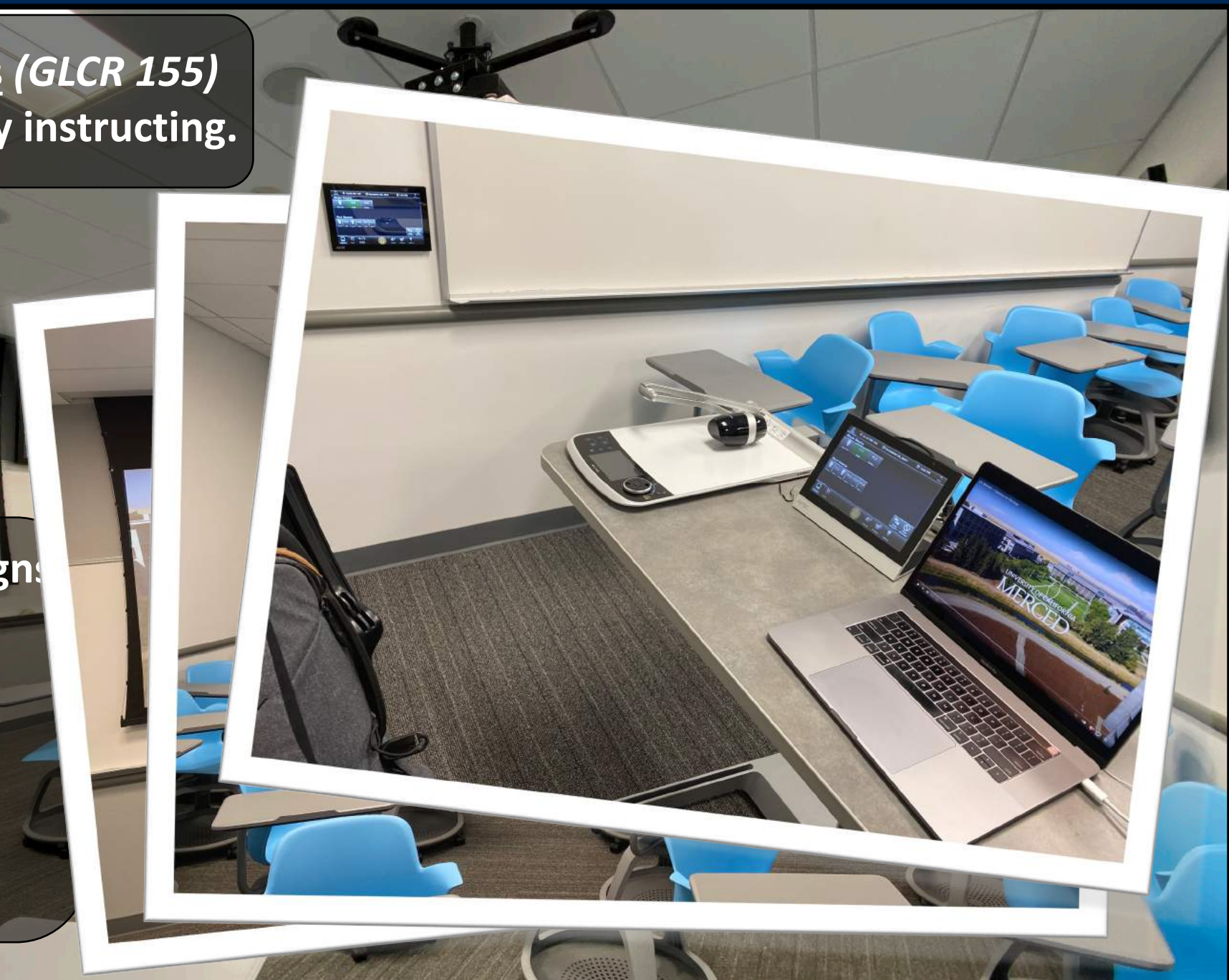
Canaan Hawks

Technology Enhanced Spaces, Technician

General Assignment Spaces (GLCR 155)
Small simple rooms for easy instructing.

Baseline for all our AV designs

- Main Display
- Side Display
- Confidence Monitor
- Touch Panel Controls
- Laptop Hookup
- Visual Presenter



Lecture Halls (COB2 130)

Great for just lectures and lab demos for large audiences.

Builds on Baseline:

- Larger screens
- Dual Screens
- Supplemental Recording
- Lab bench

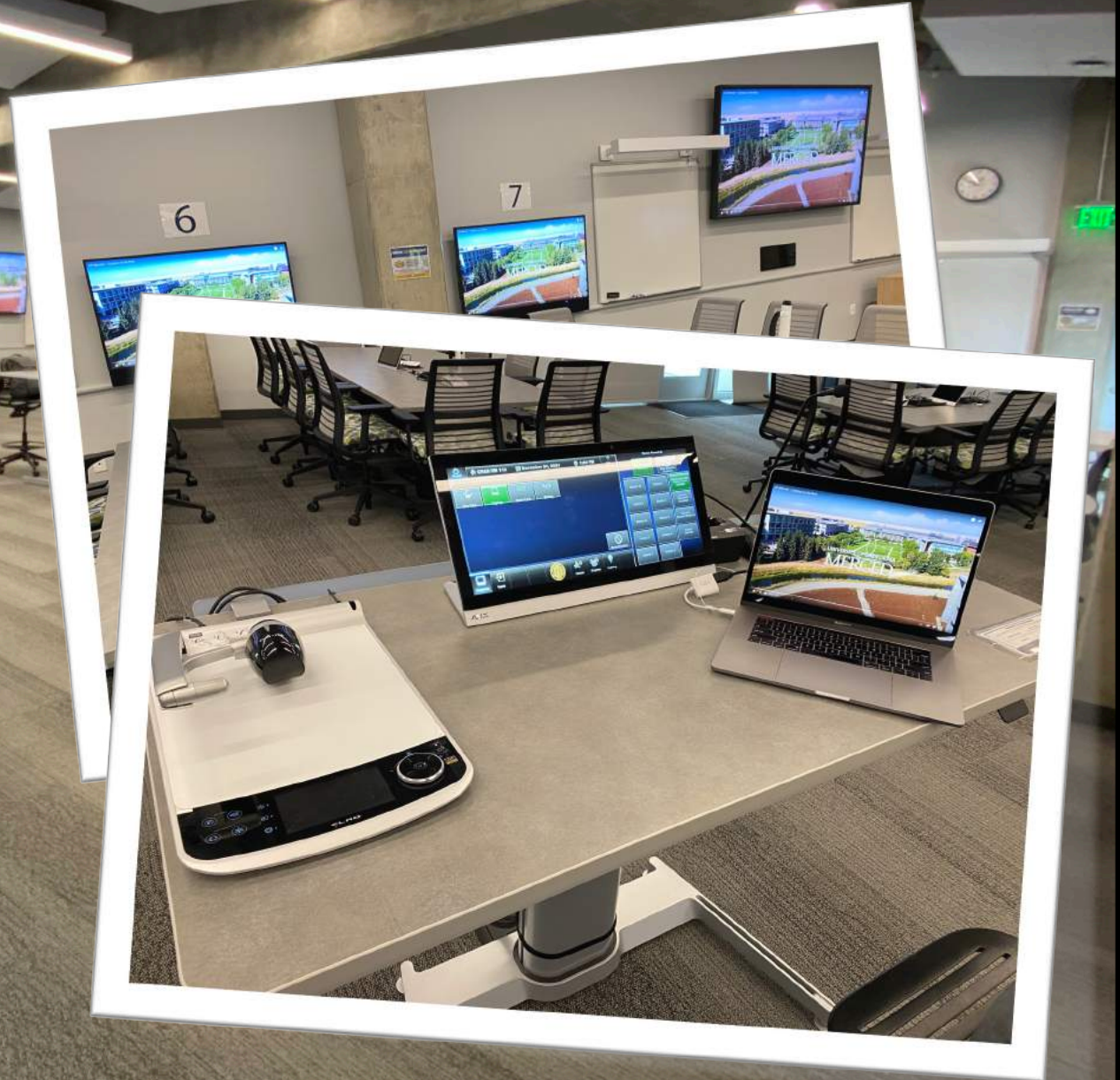


TEAL Labs - GRAN 110

Great for student breakout groups and projects

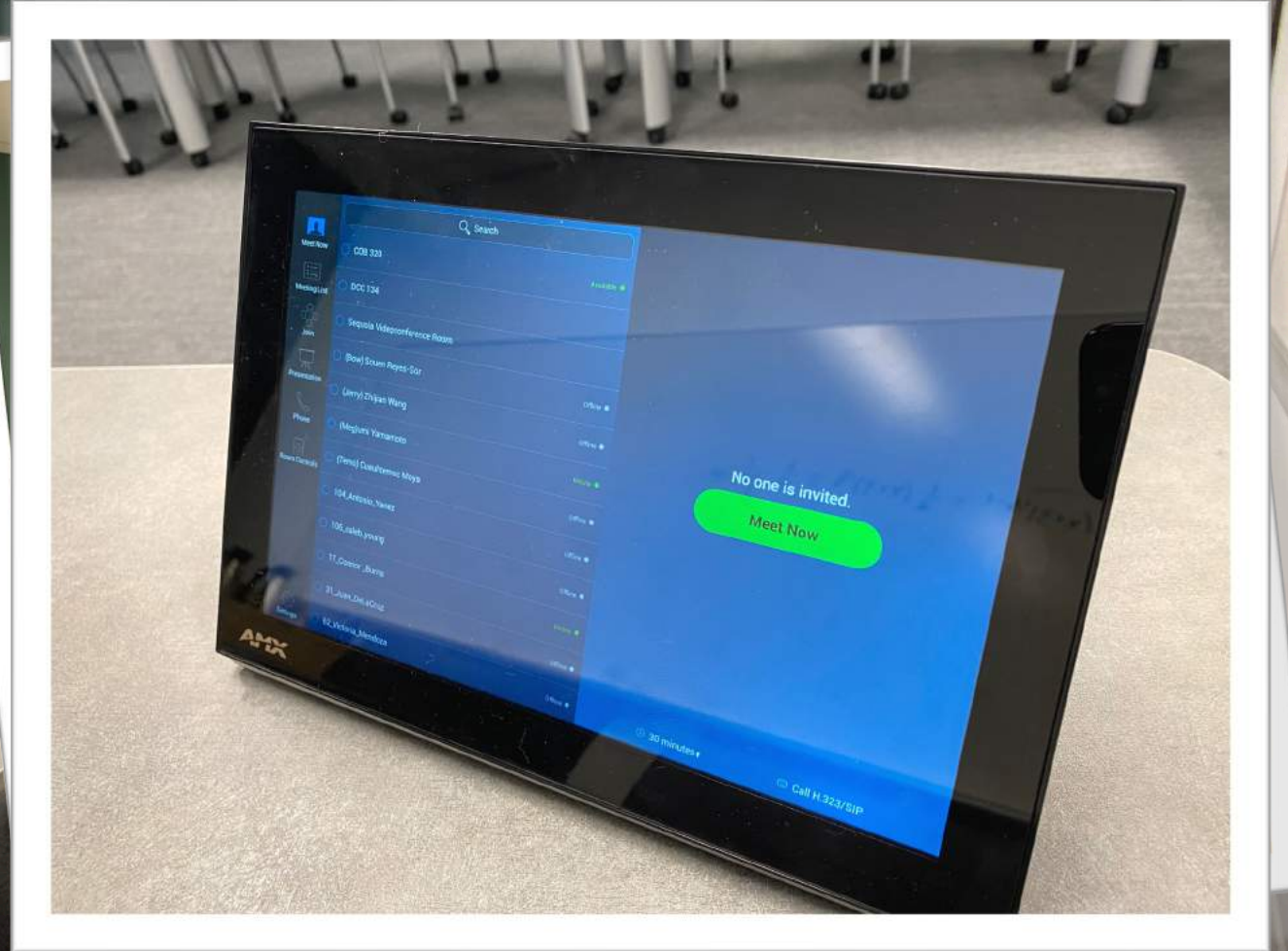
Specialized instructional delivery:

- i. Multiple matrixed displays**
- ii. Visual Presenters, Touch Panel and dry erase boards at each table**
- iii. Instructor Control Center**



Conference Rooms with Zoom - ADMIN 345
Simple conferencing rooms with Zoom calling from the room, allowing participants so see all the room occupants

Builds on Baseline
i. Integrated camera(s) and microphones
ii. Full touch panel control





Dr. Vikram and Priya Lakireddy Grand Ballroom
Ballroom for hosting in-person events

State of the Art Designs

- i. Two Large DvLED paneled displays
- ii. Zoom integration
- iii. Multiple microphones for several presenters



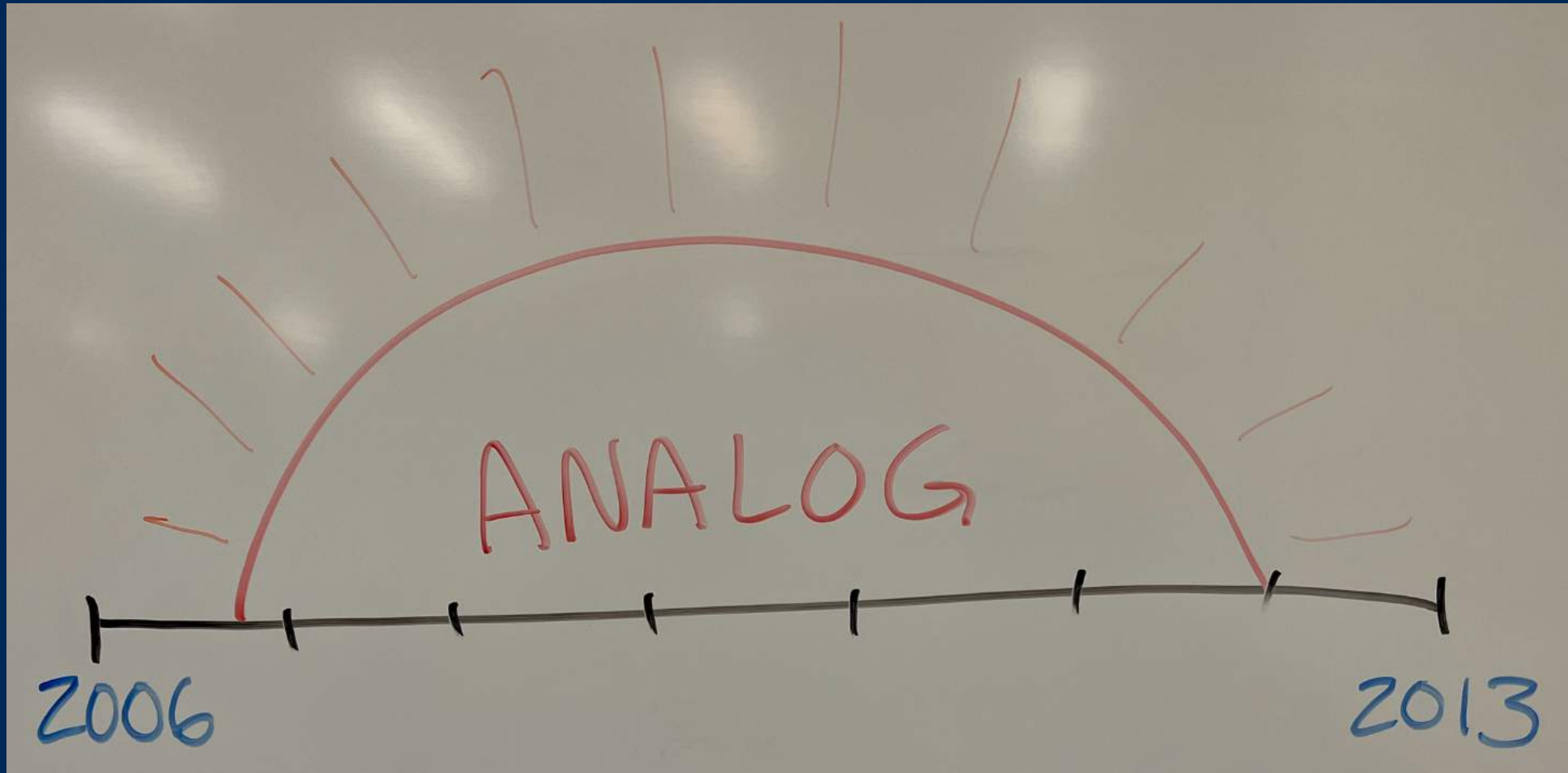


Standards

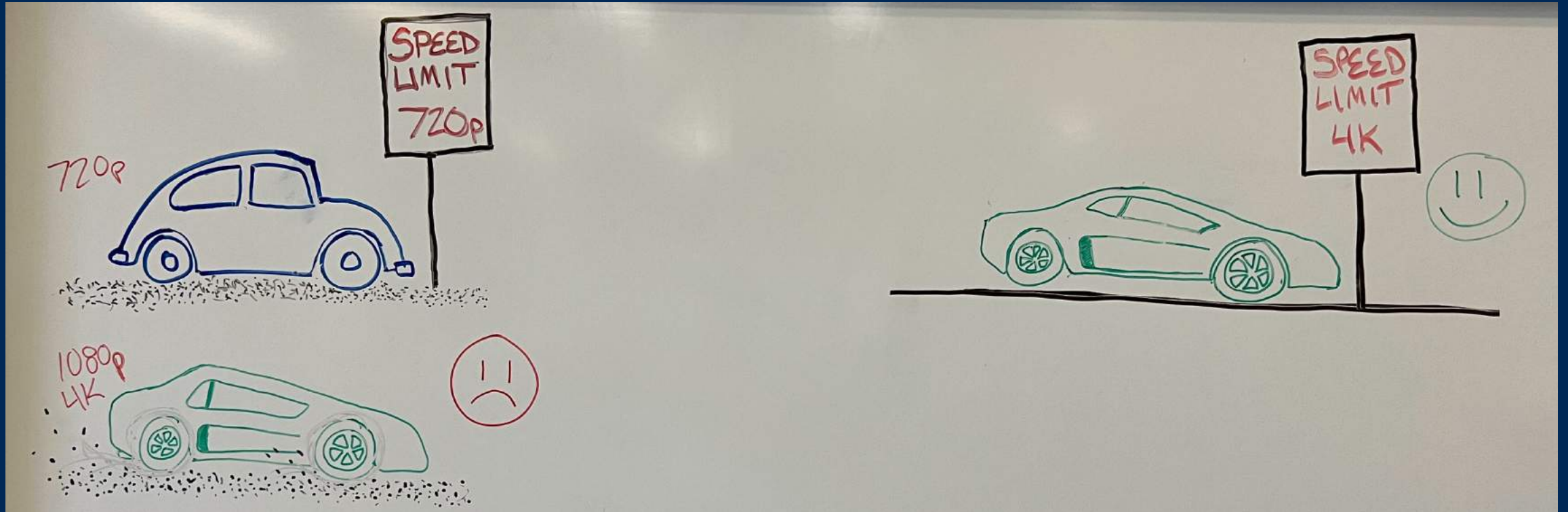
Jodon Bellofatto

Technology Enhanced Spaces, Technician

Standards – Easter Eggs




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Standards – Easter Eggs

HDMI EDID ✓ E=100
HDCP ✓




Version	Resolution
1.6?	720p
2.0?	1080p@30
2.0b?	1080p@60
2.1?	4K@30
	4K@60
	4K@120
	8K@30
	8K@60


Mini-HDMI 

V=1R 2+2=?

DISPLAYPORT EDID ✓
HDCP ✓




Version	Resolution
1.2a	720p
1.3	1080p@30
	1080p@60
1.4a	4K@30
	4K@60
2.0	4K@120
	8K@30
	8K@60

Mini DP 

Thunderbolt? 24R

USB-C EDID?
HDCP?



Power?
Data?
Video? YES?
Thunderbolt?

1080p@30
1080p@60
4K@30
4K@60
4K@120



Q&A



COMING SOON: MORE BEHIND THE SCENES!

Feb 15th - OIT: Cloudy with a Chance of Infrastructure

Mar 16th - OIT: Research IT at UC Merced

Apr 14th - OIT: Tech Procurement



<http://ucm.edu/v/oitbehindthescenes>



That's all, folks!