XPO ECST

MAY 3, 2024

CAL STATE LA
COLLEGE OF ENGINEERING,
COMPUTER SCIENCE,
AND TECHNOLOGY

CAPSTONE SENIOR DESIGN PROGRAM

PROJECT PRESENTATIONS TAKE PLACE @ USU AND GE

[CE]

CIVIL ENGINEERING
Program Presentations
1st Floor

USU: Theater

[CS]

COMPUTER SCIENCE
Program Presentations
3rd Floor

USU: LA ABC, Alhambra Rm.
GE: Ballroom 1

[ITEC + GRCM]

INDUSTRIAL TECHNOLOGY
GRAPHIC COMMUNICATIONS
Program Presentations
3rd Floor

USU: San Gabriel Rm.

[EE + ME + ETEC]

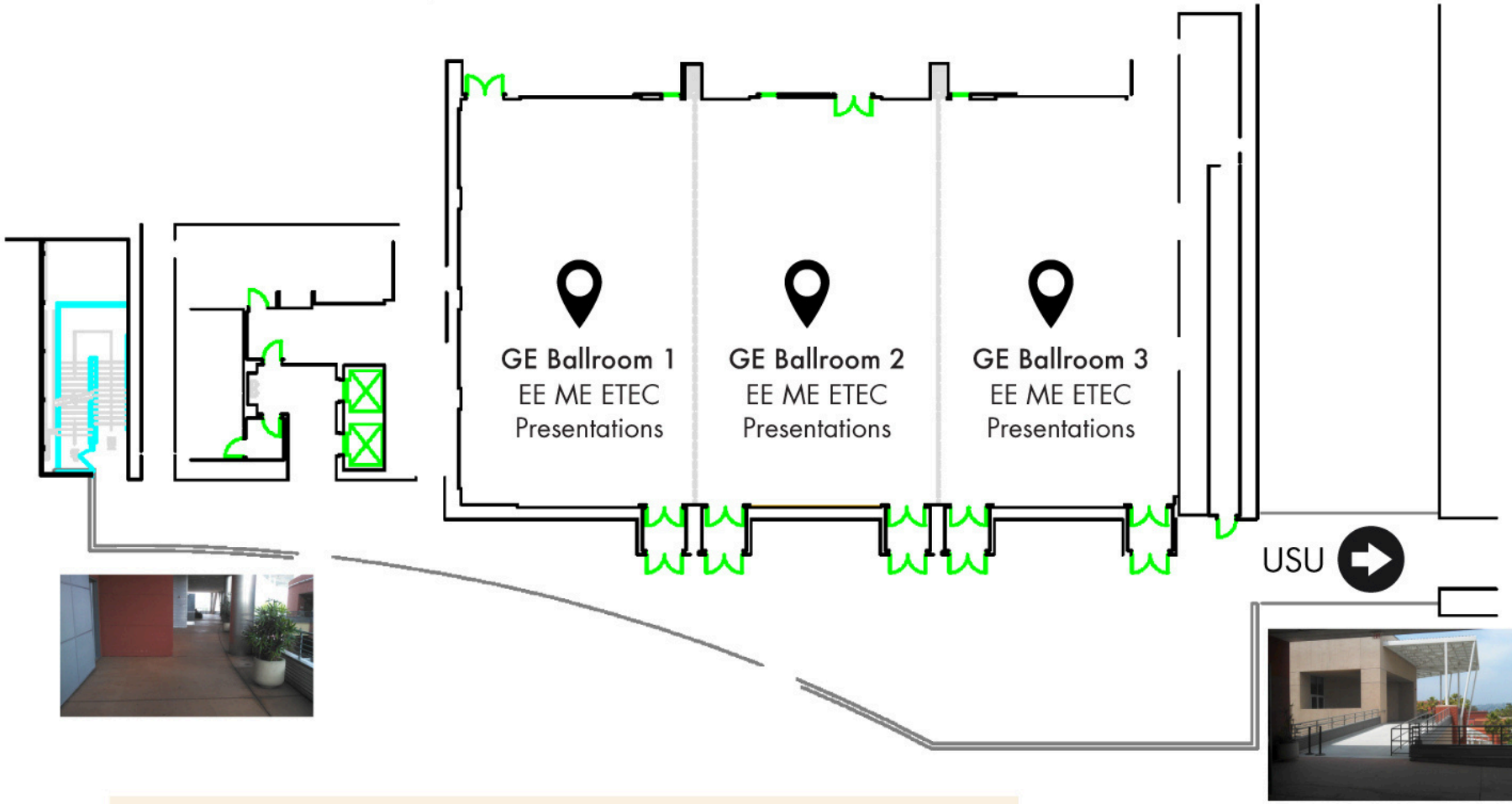
ELECTRICAL ENGINEERING
MECHANICAL ENGINEERING
ENGINEERING TECHNOLOGY
Program Presentations 3rd Floor

GE: Ballrooms 1,2,3
USU: Los Angeles Room B,
Pasadena Rm., Montebello Rm.

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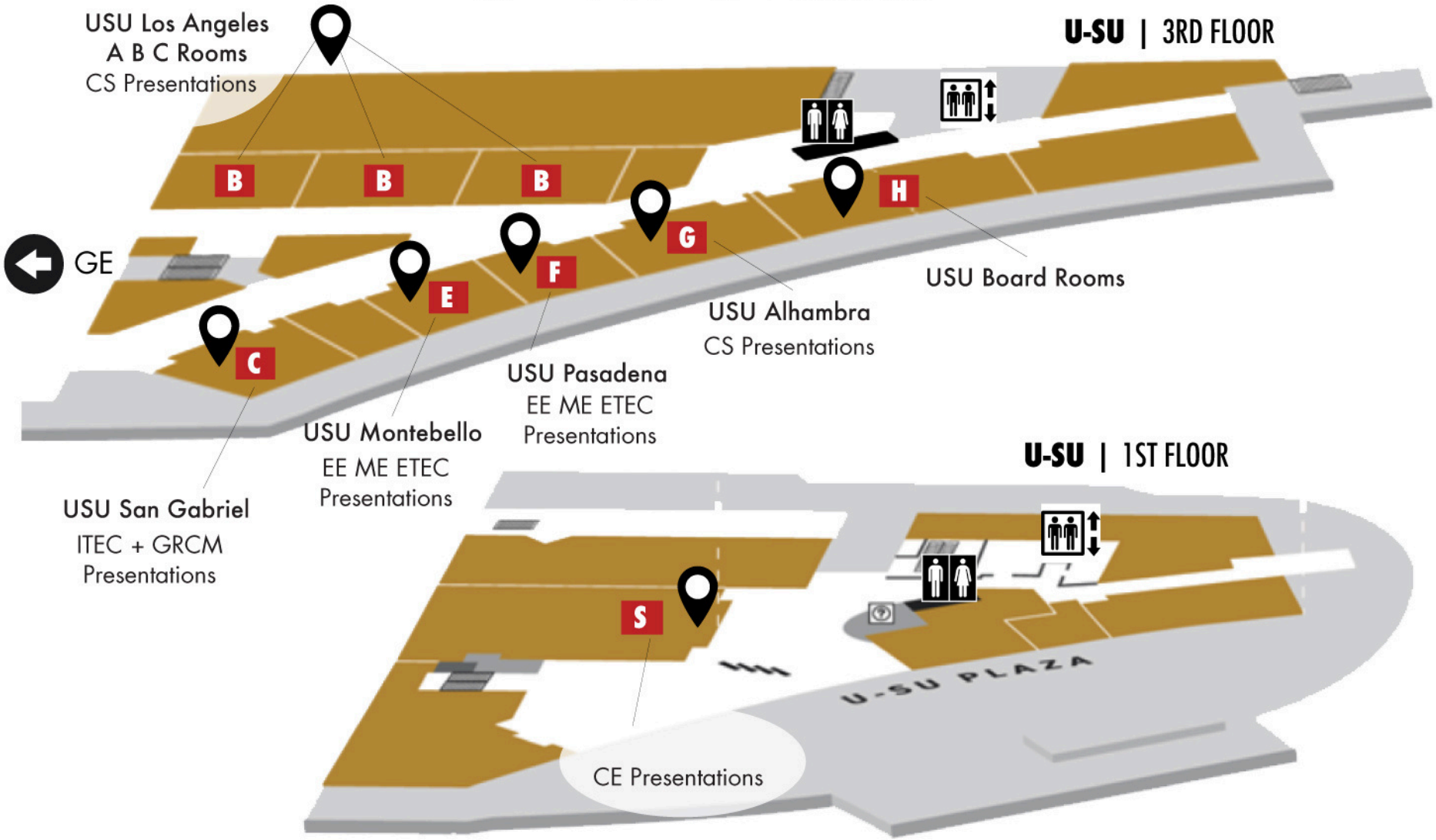
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USU 1ST FLOOR

S Theater (Room 106)

USU 3RD FLOOR

B Los Angeles Room (Room 308A-C)

C San Gabriel Room (Room 313)

E Montebello Room (Room 309)

F Pasadena Room (Room 307)

G Alhambra Room (Room 305)

H U-SU Boardroom (North & South) (Room 303)

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Capstone Expo presentations take place at GE and USU
Each presentation room has customized presentation times.

CE CS EE ME ETEC ITEC + GRCM

SCAN ME

GE BALLROOM 1

9:00 am	**Welcome**
	Session 1 - Aerospace **Moderator: Patrick Hartunian**
9:30 am	110A - Boeing Spot-Tag Generator
10:00 am	110B - Boeing Spot-Tag Generator
10:30 am	111A - Aerospace On-Orbit Manufacturing
11:00 am	111B - Aerospace On-Orbit Manufacturing
11:30 am	112 - Aerospace DiskSat Dispenser
12:00 pm	112 - Aerospace DiskSat Dispenser
12:30 pm	**BREAK**
12:45 pm	**CS Closed Session**
2:00 pm	

GE BALLROOM 2

9:00 am	**Welcome**
	Session 2a - Robosub Competition **Moderator: Salvador Rojas**
9:30 am	Robosub - CS Team
10:00 am	102 - Robosub - ENGR Team
10:30 am	**BREAK**
10:45 am	**Session 2b - Stickman Acrobot** **Moderator: Kurt Sawitskas** *Stickman Acrobot Intro*
11:00 am	106A - Stickman Acrobot
11:30 am	106B - Stickman Acrobot
12:00 pm	106C - Stickman Acrobot
12:30 pm	106D - Stickman Acrobot
1:00 pm	106E - Stickman Acrobot
1:30 pm	**BREAK**
1:45 pm	**EE Closed Session**
2:45 pm	
3:45 pm	

GE BALLROOM 3

9:00 am	**Welcome**
	Session 3 - UAV Competitions **Moderator: Mike Thorburn**
9:30 am	114 - Aggressive Manuevers
10:00 am	**CSU UAV Competitions Intro**
10:15 am	104A - C-UASC
10:45 am	104B - C-UASC
11:15 am	**BREAK**
11:45 am	105A - C-3DPAC
12:10 pm	105B - C-3DPAC
12:35 pm	105C - C-3DPAC
1:00 pm	105D - C-3DPAC
1:25 pm	105E - C-3DPAC
1:50 pm	**BREAK**

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SCAN ME

USU LOS ANGELES-A

9:00 am	**Welcome**
	Moderator: Yuqing Zhu
9:30 am	AI Research and Development
10:00 am	GPS Performance Analysis and Visualization
10:30 am	Autonomous Path Planning for Unmanned Aerial Vehicles
11:00 am	SAYA.life A Machine Learning Platform for Intelligent Water Systems Management
11:30 am	**BREAK**
12:00 pm	CS Closed Session
12:30 pm	
1:00 pm	
1:30 pm	

USU LOS ANGELES-B

9:00 am	**Welcome**
	Moderator: Jungsoo Lim
9:30 am	115 - LA City BoE Sidewalk Assessment Project ENGR Team
10:00 am	LA City BoE Sidewalk Assessment Project CS Team
10:30 am	Machine Learning for Network-Denied Environments
11:00 am	Box.com/eDefender Integration
11:30 am	PDGo
12:00 pm	**BREAK**
12:30 pm	CS Closed Session
1:00 pm	
1:30 pm	

USU LOS ANGELES-C

9:00 am	**Welcome**
	Moderator: David Krum
9:30 am	MoonTrek Augmented Reality
10:00 am	VIPER Rocks!
10:30 am	SUAS Flight Path Visualization
11:00 am	Leveraging Digital Phenotyping to Support Patients with Visual Field Loss
11:30 am	**BREAK**
12:00 pm	CS Closed Session
12:30 pm	
1:00 pm	
1:30 pm	

USU ALHAMBRA

9:00 am	**Welcome**
	Moderator: Huiping Guo
9:30 am	Behavioral Cognition Project
10:00 am	Secure Module/Key Management Application
10:30 am	The arQive
11:00 am	Want2Remember
11:30 am	
12:00 pm	**BREAK**
12:00 pm	CS Closed Session
1:00 pm	
1:30 pm	

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SCAN ME

USU MONTEBELLO

9:00 am	**Welcome**
	Session 4 - Energy/Infrastructure Moderator: Curtis Wang
9:30 am	103 - ASHRAE
10:00 am	107 - Project Channel Islands
10:30 am	107 - Project Channel Islands
11:00 am	113 A - iMasons
11:30 am	113 B - iMasons
12:00 pm	**BREAK**
12:15 pm	CS Closed Session
1:00 pm	
1:30 pm	

USU PASADENA

9:00 am	**Welcome**
	Session 5 - Automotive / Specialized Devices Moderator: John C. Bachman
9:30 am	101-SAE Baja
10:00 am	101-SAE Baja
10:30 am	108-Electric Car Battery Development
11:00 am	109-Battery Development Thermal Management
11:30 am	116 - 3D Printing Project
12:00 pm	117 - Einstein Telescope Cryogenic Suspension
12:30 pm	**BREAK**
12:45 pm	CS Closed Session
1:30 pm	

USU SAN GABRIEL

9:00 am	**Welcome**
	Moderator: Juan Pena, Jr.
9:30 am	EDS System "Emergency Drone Service" (ITEC)
10:00 am	
10:30 am	Astrophobia (GRCM) TechTopia (GRCM)
11:00 am	
11:30 am	
12:00 pm	**BREAK**
12:15 pm	CS Closed Session
1:00 pm	
1:30 pm	

USU THEATER

9:00 am	**Welcome**
	Moderator: Howard Lum
9:30 am	Group 1: Costa Mesa Park-and-Ride: A Sustainable Solution to Promoting Urban Commuting
10:15 am	Group 2: Park-and-Ride for a Sustainable Tomorrow
11:00 am	Group 3: Costa Mesa Park-and-Ride Facility
11:45 am	Group 4: Development of a Sustainable Park-and-Ride Facility in Costa Mesa
12:30 pm	**BREAK**

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