

Spring 2024 Engineering Capstone Design – Snapshot 3

Storyboard Presentations

Tuesday, March 26, 2024, from 3:30 – 4:45 pm

Storyboard Presentations

<u>Project Name</u>	<u>Project Sponsor</u>	<u>Lead Dept.</u>	<u>Instr.</u>
Power Lab (GJ 102)			
• 19 – DC Power Bus in Residential/Commercial Buildings	Idaho Power	ECE	KS
• 21 – Combined GPS and Intensity Based Alignment...	Hansen Photonics	CS	BB
• 22A – Gamified Computers and Networks: Devices	UI CS	CS	BB
• 22B – Gamified Computers and Networks: Networks	UI CS	CS	BB
• 23 – Small-scale Factory Testbed for Cybersecurity Analysis	UI CS	CS	BB
• 24 – Hardware and Software Virtualization of ICS and HMI	UI CS	CS	BB
• 25 – Build AI Foundation Models and APIs...	UI CS	CS	BB
• 26 – AI-enhanced Smart Physical Rehabilitation	UI CS	CS	BB
Design Suite (GJ 108)			
• 03 – Wildfire Smoke Generator	UI CNR	ME	MR
• 04 – Updated Ember Generator	UI CNR	ME	MR
• 06 – Portable Emissions-Testing Trailer	UI CSC	ME	KK
• 07 – C-arm Relocation Guidance	Dr. Hiller	ME	PY
• 08 – Hot Cell Window Polishing Tool	Idaho National Lab.	ME	MS
• 09 – Glass and Dust Separation System	Idaho National Lab.	ME	MM
• 11 – Oil Film Interferometry	Kodiak Aircraft	ME	PY
• 12 – No Maintenance Pivot Point	Hyster-Yale	ME	MS
• 13 – Automotive Style Cab Door Windows	Hyster-Yale	ME	MS
• 14 – Low-Cost Metal Forming Fixture	Schweitzer Engineering Lab.	ME	MR
• 15 – Controlled Velocity Projectile Acceleration	Vista Outdoors	ME	MM
• 16 – Automatic Tool Changer for End of Arm Tools	Bastian Solutions	ME	MS
• 18 – Spacecraft Radiation Sensing and Radio Communications	NASA ISGC	ECE	KS/FL
• 20 – Portable LED Scoreboard	Friday Night Flag	ECE	KS
• 30 – Automated Ring/Mount Assembly Machine	Nightforce Optics	ME	MS
• 31 – Smart Plank Inspection & Navigation...	Wildwood Grilling	CS	JS
Design Suite - Backroom (GJ 108A)			
• 01 – Robotic Assembly of Photovoltaic Arrays	NASA ISGC	ME	MM
• 02 – Prandtl-D Wing Demonstration	NASA ISGC	ME	PY
• 05 – Fisheries Wastewater Recapture	McKinstry	ME	PY
• 17 – Arcadia Lake Pump Station	NASA ISGC	ECE	KS/RN
• 27 – Shear Stress Bioreactor	UI BE & Stanley Solutions	BE	RQ
• 29 – Shock Circuit for Virtual Fence System	UI BE	BE	RQ

Participant Instructions:

- Capstone students:
 - Create a storyboard presenting the status of the project and plans for next semester.
 - Simple Approach → Print out 6-10 key slides and pin them to a foam board.
 - Prop up the board onto an easel (or table) for display at the location identified above.
 - Present storyboard for the entire duration; discuss and answer questions with visitors.
 - Display any hardware you have available as is practical.
 - Take turns and mingle around to other storyboard presentations.
- General attendees:
 - Mingle and visit student presentations throughout the building.
 - Encourage students to articulate the value proposition of their projects.
 - Ask lots of challenging questions to get the students to talk about their projects.
 - Provide constructive feedback and encouragement.