



Student Posters (ECSW 2.100)

Poster Type	Poster Number	Poster Session	Authors	Poster Title
Student	1	Monday & Tuesday	Dave Worth, Alex McGaw, Connor Murdock, Kiera Chang	Hail Cannon
Student	2	Monday & Tuesday	Sagar Sah, Adeola Salako, Brandon Caltrider, James Ray, Keith Bryant	Portable Solar-Powered Water Desalination System
Student	3	Monday & Tuesday	Evan Alexander, Nicholas Guidoboni, Gabriel Katz, Andres Marquez	Teaching STEM Concepts to Blind Students
Student	4	Monday & Tuesday	Jake Carter, Maritza Aguirre-Diaz, Nathan Chen, Lindsay Ryan	Educational Tongue Musculature Model
Student	5	Monday & Tuesday	John Jamir Consengco, Michelle Sabers, Arman Avagian, Adrian Ruiz Diaz, Abbas Juzar Roopawala	Aquatic and Recreational Center Design
Student	6	Monday & Tuesday	Arian Namavar, Ryan Sakuma	AI Driven Personalized Menu Content for Drive Thru Customers
Student	7	Monday & Tuesday	William Clark, Coleman Bond, Jonathan Cox, Nathaniel Smith, Diego Martinez, Martin Viassolo	LANL Multi-Axis Strain Measurement Device
Student	8	Monday & Tuesday	Jordan Steverson	Anti-Sag Shock-Absorber for Gate Control
Student	9	Monday & Tuesday	Spencer Ciammitti, Emmanuel Enriquez, Diana Meyer, Jocelyn Reynolds, Madelyn Reynolds, and Julia Starkey	REDIEM- Renal Extremity Device to measure Impedance, Edema and Movement
Student	10	Monday & Tuesday	Nicole Statler, Chris Vuong	Joint UArizona UMass Project - Smart Rocks - A Network of Covert Smart Sensors
Student	11	Monday & Tuesday	Emily Grasso	Smart Lysimeter: An Autonomous, Low-Cost, and Portable Lysimeter for Use in a Greenhouse System
Student	12	Monday & Tuesday	Joseph Deneke, Sarah Foss, Christina Ishak, Mikhael Kadyrkaev	Fused Deposition Modeling for Fiber-Reinforced Composites
Student	13	Monday & Tuesday	Emily Batts, Pryor Gibson, Sam Huneycutt, Jasmine Gaston	Proximity and Noise Detection Alarm for Outdoor Applications
Student	14	Monday & Tuesday	Colton McKay, Matt Hummel, Michael Hall, Nathan Lee	6-DOF Robotic Manipulator
Student	15	Monday & Tuesday	Derek Lee, John Cuvillo, Evan Cheng, Alec Chen, Angel Alarcon	End-to-end Data Pipeline for Chemical Documents
Student	16	Monday & Tuesday	Payton Brown, Mitchell Gregory, Patrick Andreou, Isaiah Reade	Lithium-Ion Battery Thermal Control System
Student	17	Monday & Tuesday	Henry Beckstein, Leo Lavigne, Evan Millison, Rohan Xavier Sequeira, Yueh-Lin Tsai, Joseph Zeolla	Optimizing Lane Centering Assist Test Equipment
Student	18	Monday & Tuesday	Mitchell Cabral, Clarice Rucklos, Anthony Aliotti, Jasmine Nguyen	Spatial Alignment with Machine Vision Robot
Student	19	Monday & Tuesday	Jessie Chang, Carol Abadeer, Jason Wang, Kacy Diep, Sandra Gaurgious, Tiffany Chan	Canvas Tools For Teachers
Student	20	Monday & Tuesday	Robert Obendorf, Katie Platt, Austin Simon, Cameron Self, Sean Smith	3D Asset Viewer
Student	21	Monday & Tuesday	Ellen Kulla, Alexis Diaz, Jinli Duan, Qiantai Chen, Yuan Wang	AudioScribe
Student	22	Monday & Tuesday	Joseph Walsh, George Kent-Scheller, Paul Stephen Hutchinson Maltaghati	NanoPack
Student	23	Monday & Tuesday	Timothy Pentapaty	Investigation of a Scramjet Inlet for Unstart and Operability
Student	24	Monday & Tuesday	Kavya Balaji, Nikhil Kulkarni, Athena Goldsmith, Rowan Fraser, Nicholas Ho	Augmented Reality-Guided Focused Ultrasound System for Neuroblastoma Therapy
Student	25	Monday & Tuesday	Claire Neivandt, David Girata Narino	Clinical Pain Assessment Using the Thermal Grill Illusion
Student	26	Monday & Tuesday	Edgar J. Acevedo, Aamna Ahsan, Roger W. Decker III, Alyssa Rios, Andria McIntyre, Abbas Rizvi	Instrumented Deep Vein Thrombosis (DVT) Surrogate Leg



Capstone Design CONFERENCE 2022

JUNE 6-8, 2022 ▶ DALLAS, TEXAS

Professional Posters (ECSW 1.100)

Poster Type	Poster Number	Poster Session	Authors (* indicates Corresponding Author)	Poster Title
Professional	27	Monday	B. Kris Jaeger-Helton (Northeastern University)*; Susannah Howe (Smith College); John K Estell (Ohio Northern University)	Meeting the Client: Learning the Capstone Student's Perspective through the Three Intelligences Methodology
Professional	29	Monday	Divya P Mittal (Thapar Institute of Engineering and Technology)*; Ramit Koul (Thapar Institute of Engineering and Technology); Utkarsh Chauhan (Thapar Institute of Engineering and Technology); Aryamaan Pandey (Thapar Institute of Engineering and Technology); Vinay Kumar (Thapar Institute of Engineering and Technology)	Design and Development of Open-Source Capstone Project Management Portal
Professional	31	Monday	Nathan M Kathir (George Mason University)*	Engineer-Builder to Capstone Instructor, Challenges and Lesson Learned
Professional	33	Monday	William Ziegler (Binghamton University - State University of New York)*; Andrea Radasanu (Northern Illinois University); Heidi Appel (University of Toledo); Ralph Keen (University of Illinois - Chicago)	Capstone on Top of Capstone: The Honors Dilemma
Professional	35	Monday	Scott Shaffar (San Diego State University)*	Implementing Industry Practices for an Undergraduate Engineering Senior Design Capstone Program
Professional	37	Monday	Aws Al-Shalash (University of Texas at Tyler); Muath Bani Salim (University of Texas at Tyler)*; Nael Barakat (University of Texas at Tyler)	Distinct Challenges to Senior Design Projects
Professional	39	Monday	Dean Nieusma (Colorado School of Mines)*; Kristine Csavina (Colorado School of Mines); John Persichetti (Colorado School of Mines)	Organizational Design and Delivery of an Interdisciplinary, Client-Sponsored, 2-Semester Capstone Experience
Professional	41	Monday	Joshua Gargac (Ohio Northern University)*	Incorporating Industry-based Metrics into a Specifications Grading System for Capstone Assessment
Professional	43	Monday	Brian J. Novoselich (West Point)*; David Knight (Virginia Tech)	Relating Shared Leadership to Team Attributes
Professional	45	Monday	Edward Latorre-Navarro (University of Florida)*; Elizabeth Meier (University of Florida)	Strategies to Fund Community Service Capstone Projects
Professional	47	Monday	Jamie D Gravell (The University of Texas at Dallas); Robert Hart (University of Texas at Dallas)*; Todd W Polk (UT Dallas)	Implementation of Internal Design Reviews in a Capstone Course
Professional	49	Monday	Michelle Clauss (Grove City College); Shraddha Sangelkar (Rose Hulman Institute of Technology)*; Jim Mayhew (Rose Hulman Institute of Technology); Vern Ulrich (Grove City College)	Inter-Collegiate Capstone Project Collaboration: A Case-Study
Professional	51	Monday	Matthew J Bietz (University of California, Irvine)*; Hadar Ziv (University of California, Irvine)	Empowering Capstone Students in Client Interactions
Professional	53	Monday	Lee B. Hinkle (Texas State University)*; Mark Welker (Texas State University); Jeff Stevens (Texas State University)	Incorporating Robotics into Electrical Engineering Capstone
Professional	55	Monday	Adriana Talamante (Arizona State University)*; Catherine D. D. Bowman (Arizona State University); Linda T. Elkins-Tanton (Arizona State University); Rona Oran (Massachusetts Institute of Technology); Ravi Prakash (NASA Jet Propulsion Laboratory)	Too Late or Just in Time? Industry Partner Networking and Professional Development Opportunities for Capstone Students
Professional	57	Monday	Sarah A Brownell (Rochester Institute of Technology)*	WIP: Adventures in Creating a Transdisciplinary Community-Engaged Capstone
Professional	59	Monday	Bridget Smyser (Northeastern University)*	What's a Good Project? Comparing Student, Faculty and External Evaluations
Professional	61	Monday	Rachel E. Horenstein (University of Denver)*; Goncalo Martins (University of Denver); Peter J. Laz (University of Denver)	Assessment of "Effective" Communication in Design Courses
Professional	63	Monday	John P. Parmigiani (Oregon State University)*; Jeffrey A. Hoffman (Oregon State University); Sarah Oman (Oregon State University); Joseph Piacenza (Oregon State University); Lynn Merritt Ekstedt (Oregon State University)	The Use of Professional Technical Writers for Evaluating Capstone Student Writing