



Northeastern University

College of Engineering

The Thirty-Ninth ECE Capstone Design Competition

Friday December 6, 2024, Ballroom (Curry Student Center)

Electrical & Computer
Engineering

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|--------------------|---|
| 7:30-8:30 | Judges Breakfast (336 Curry Student Center: CSC) |
| 8:30-8:50 | Welcome by Professor Bahram Shafai (ECE Capstone Director),
Dean of COE Gregory Abowd, and Vice Chair for Undergraduate
Education, Emad Aboelela, in Ballroom Curry Student Center |
| 8:50-9:10 | Ro-Boat: An Autonomous Lifeguard for Efficient Water Rescue
Oliver Hugh, Shane Lerkvikam, Michael Sekenski, Celine Semaan, Lia Shechter, Tianyi (Kevin) Su |
| 9:10-9:30 | Digital Game Board
Marcus Feng, Yuqi Fan, Troy Hutchinson, Aidan Kaneshiro, Jaden Mack, Ryan Monahon |
| 9:30-9:50 | Interactive System for Electronic Creativity (ISEC)
Alexandros Paliouras, Armany Peguero, Daniel Flynn, Tyler Exilien, Jazmyn Harris |
| 9:50-10:10 | The Sustainable Output for Unplugged Living (SOUL)
Marc D'Almeida, Samantha Berlind, Raul Fabian, Julia Rasmussen, Jordan Stewart,
Kalsang Tsering |
| 10:10-10:30 | Solar Panel Electrode Cleaning Drone (SPEC – Drone)
Kabato Burka, Rithvik Katikaneni, Luke Morrison, Justin Soto, Patrick Rose, Nicholas Tarallo |
| 10:30-10:50 | <u>Short Break</u> |
| 10:50-11:10 | Canopy Power: A Solar-Powered Beach Umbrella
Emily Hutchins, Abigail Johnson, Grace Irwin, Samantha Moy, Ryan Brueckner |
| 11:10-11:30 | Two-Factor Authentication Door Access Device
Evan Gurry, Jin Hwang, Marty Sullaway, Reid Chandler, Oreste Olimpo, Connor Albright |
| 11:30-11:50 | MedSafe (Temperature Controlled Pharmaceutical Delivery Box)
Aiden Benjamin, Shawn Charles, Priyam Modi, Tyler Vasquez, Moses Yawe, Frank Zizzo |
| 11:50-12:10 | SugarScope
Claire Adner, Garrett Hockey, Ethan Kjersgard, Kellan McCarthy, Jake Ross, Kennedy Scheimreif |
| 12:10-1:30 | <u>Lunch Break (McLeod Suites, 3rd Floor of Curry Student Center)</u> |
| 1:30-1:50 | Soluna: A Wireless Alarm System for Enhanced Sleep and Morning Routines
Nicholas Cotaj, Maya De Los Santos, Samantha Diaz, Tyree Doss, Omar Kolkas, Zachary Walker-
Liang |



1:50-2:10	SafeGuard Alarm System Lucca Wu, Minghao Zhu, Samarth Bhardwaj, Junyan Dai, and Noah Assam
2:10-2:30	System for Envisioning Environment (SEE) Daniel Klevak, Jasmine Sajna, Ethan Shan, Jason Touma, Kai Webber
2:30-2:40	<u>Short Break</u>
2:40-3:00	Pedestrian Awareness and Warning System (PAWS) Andre Agostinelli, Jack Bassick, Kelly Choate, Melissa Jiang, Vincent Li, Julius Murphy
3:00-3:20	FloVis Acoustic Flowmeter System (AFS) Yash Sahoo, Lanny Tseng, Jack Zuo, Nicholas Walton, Jonah Saunders
3:20-3:40	Posture Best Madeline Coco, Kaitlyn O’Flaherty, Anson Bridges, Grant Petersen, and Rostyslav Rozhok
3:40-4:00	“Nomad Screen” Portable Projector System Mark Stouffer, Michael Mechenko, Trin Rist, Charles Zhao, Sebastian Gould
4:00-4:30	Judges Deliberation
4:30-4:45	Award Announcement
4:45-5:00	Pictures with the Judges
	End of Program 5:00 PM.