



Northeastern University

College of Engineering

The Thirty Eight ECE Capstone Design Competition

Monday April 8, 2024, Ballroom (Curry Student Center)

Electrical & Computer
Engineering

409 Dana Research
Center
360 Huntington Avenue
Boston, MA 02115

617.373.4159
fax 617.373.8970

www.ece.neu.edu

7:30-8:30	Judges Breakfast (336 Curry Student Center: CSC)
8:30-8:45	Welcome by Professor Bahram Shafai (Capstone Director), and Chair of ECE Department Ken Duffy in Ballroom CSC
8:45-9:00	Reel Feel Emma Sommers, Dean Saifi, David Weger, Jaiden Alessio, Gray Barnum, Pat Sanpietro
9:00-9:15	Comprehensive Hazard Response and Information System (CHRIS) August Eriksson, Siddharth Chenrayan, Yunkai Hu, Celia Block, Brian Lai
9:15-9:30	PTT-Based Blood Pressure Monitor (PBPM) Mario Lanzilotta, Tej Vyas, Andrew Bristow, Kayshihant Shankar, Jasper Kimball, Samuel Burke
9:30-9:45	Underwater Acoustic Transducer Geolocation System: Project Yellow Submarine Kartikey Agarwal, Andrew Bergquist, Ergest Beshaj, Dmitry Matveev, Beau Shion Ward, Tae Yang
9:45-10:00	RideSense Chris Corcoran, Luke DePinho, Annette Michel, Sophia Wang, Rayan Yedaly
10:00-10:15	Covered: CSI Smart Home Alec Braverman, Charles Caiola, Madeline Chew, Henry Degrasse, Kanachi Weli
10:15-10:30	<u>Short Break</u>
10:30-10:45	Smart Skate System Aidan Capaldi, Taran Lee, Elias Larsen, Mikayla Sagle, Benjamin Taylor
10:45-11:00	MAPLEE - Modular Autonomous Platform for Landscaping and Environmental Engineering Garrit Streng, Ian Cummings, Nate Quattrochi, Nick DePatie, Walter Stadolnik
11:00-11:15	Electronic 3-Valve Instrument (E3VI) William Allan, Jared Cohen, Daniel Krausz, Ferd Sauereisen, Jonah Yu
11:15-11:30	Cardiac Optical Fiber Sensor (COFS) Jote Brown, Javier Coindreau, Ariel Mahler, Zachary Siedlecki, Anwar Sirage, Linyun Wang
11:30-11:45	Trans-Radial Prosthetic (TRP) Cooper Bennett, Julian Crowley, Nicla De Biasi, Thane Gallo, Jacob Yao, Cassidy Zeng
11:45-12:00	Piano Learning Assistant for You (PLAY) Brian Brown, David May, David Meseonznik, Peyton Sullivan, Sym Cunningham



12:00-1:15	<u>Lunch Break (McLeod Suites, 3rd Floor of Curry Student Center)</u>
1:15-1:30	Fire Emergency Rescue Beacon (FERB) Anya Anya, Andrew Nguyen, Timothy Sary, Ethan Howe, Jeremy Ha
1:30-1:45	Pocket Piano Kimberly Braganza, Daniela Elder-Gotta, Ella Holl, Abigail Lau, Alex Wang
1:45-2:00	Automated Umpire System (AUS) Zin Hein Aung, Harry Chen, Joseph Perkins, Alessandro Risi, and Kayla Wang
2:00-2:15	Phased-Array Speaker System (PASS) Brendan Li, Marialena Troia, Nick Hurley, Spencer Romero, Tannay Chandhok, and Tucker Zakon-Anderson
2:15-2:30	<u>Short Break</u>
2:30-2:45	Plantware Christian Bender, David Gabriel, Jakob Brattke, Julia Van Burger
2:45-3:00	Rhythm Rehab Revolution (R³): Stroke Rehab Reimagined Sidharth Annapragada, Andrew Briasco-Stewart, David Fatheree, Iris Wang, and Dominik Zajac
3:00-3:15	Wide Area Network Client with Extended Range (WANCER) Ehsen Ahmad, Ankit Amonkar, Sreekar Chilakapati, Kenny Lin, Ethan Liu, Hayden Smith
3:15-4:00	<u>Solar Eclipse Break</u>
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.