



Northeastern University

College of Engineering

The Forty-Second ECE Capstone Design Competition

Monday April 6, 2026, Ballroom CSC (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)
8:30-8:45	Welcome by Professor Bahram Shafai (ECE Capstone Director), Dean of COE, Gregory Abowd, and Chair of ECE Department, Edmund Yeh, in Ballroom CSC
8:45-9:00	Stringless Guitar Olivia Peters Van Aalst, Justin Bosland, Laurel Brown, Define Ulusoy, Jack Yu
9:00-9:15	Ambulance Inventory Management System Ryan Woo, Dhruv Dingari, Thomas King, Anastasia Lindquist, Neirit Mahabub, Ethan Ostroff
9:15-9:30	Dalmatians Rebecca Dozortsev, Matthew Baker, Tyler Von Pervieux, Kaitlyn Hu, Augustine Nguyen, Jason Yang
9:30-9:45	Heat Seekers (Wildfire Detection System) Jani Passas, Dani McLaughlin, Fausta Fenner, Spandana Machavarapu, Abhiram Pulavarthi, Sarah Ninan
9:45-10:00	<u>Short Break 1</u>
10:00-10:15	CTHULHU: Cancer-Targeting Hyperspectral Ultraprecise LASER Handling Unit Hazel Bershatsky, James Brennan, Alexi Carlone, Matt Geisel, Iris Kaucher, Julia Keadey
10:15-10:30	Helping Hand: An Assistive Robotic Platform with Vision Control Mark Yang, Huaqing Wang, Riley Intihar, Krish Gupta, Nicole Contreras, Henry Gao
10:30-10:45	Robotic Acoustic Identification for Disaster Emergency Response (RAIDER) Ritika Gurjar, Anna Valades, Casey Goyette, Ester Vicente, Grace Watson, and Madison O'Neil
10:45-11:00	RepSense Alex Wise, Aaron Xu, Connor McEleney, Maria Clara Porto, Thomas Glassman, Zachary Klusky
11:00-11:15	<u>Short Break 2</u>
11:15-11:30	Dagnosis Francesca Cambareri, Brian Chung, Serena Lin, Cameron Moloney, John Roche, Gregg Vignaux
11:30-11:45	GestAir: Gesture Operated Drone Adora Chen, Liam McCarthy, Olivia Lazar, Michael Veteri, Nicholas Sirota, Rachel Haynes



11:45-12:00	PosturePerfect Victor She, Maxene Aguinaldo, Paul Wisnaskas, Sriya Lanka, Abdu Assaf, Kyle Andrews
12:00-12:15	CourtIQ: Intelligent Basketball Training Device William Ferros, Max Langweil, Niki Manolis, Jordan Monsen, Alex Nikolov, Sonia Sheth
12:15-1:45	<u>Lunch Break (McLeod Suites 318-322 CSC)</u>
1:45-2:00	Smart Walker Justin Bonapace, Owen Chun, Diego Klish, Nicholas Oskiper, Surya Ravindran, Adith Vettom
2:00-2:15	Athletic Form Assessor (AFA) Chamroeunrath Chiv, Luis Rodriguez, Erin Choudhari, Nora Schmitt, Aniket Sarkar, William Masterman
2:15-2:30	GloVR: A VR Hand Rehabilitation System Page Patterson, Catherine Menten, Jackymora Isa, Spencer Sweeney, Tobechukwu Aniagboso
2:30-2:45	<u>Short Break 3</u>
2:45-3:00	Autonomous Indoor Delivery Robot Using ArUco-Based Localization Renke Cui, Hansen Cao, Matthew Shen, William Whelan
3:00-3:15	Search and Rescue Operation System (SAROS) Laanu Adeboye, Shyma Alshari, Daniel Costanzo, Matthew Egg, Evan Moncheck, Amanda Teixeira, Ted Wilson
3:15-4:00	Judges Deliberation
4:00-4:15	Award Announcement
4:15-4:30	Pictures with the Judges
	End of Program