

2013 Showcase Winners

Biomedical/Mechanical Engineering:

1st Place:

11 Hip Continuous Passive Motion Device

Students: Nick Black, BME; Meagan Ita, BME; Andrew Turner, ME; Beth Schlegel, ME; Michael Vignos, BME

Faculty Advisor(s): Dr. Mark Ruegsegger, Dr. David Lee, Dr. John DeWitt, PT, AT, SCS

Industry Sponsor: Ohio State Biomedical Engineering

Industry Contact(s): Dr. Mark Ruegsegger, Dr. David Lee, Dr. John DeWitt, PT, AT, SCS

2nd Place:

21 Trunk Assistant

Students: Jared Collier, ME; Justin Mesick, ME; Rachael Meyer, ME; Cam Rasey, ME; Eric Ricciardi, ME

Faculty Advisor(s): Dr. Mark Ruegsegger, Dr. David Lee, Dr. John DeWitt, PT, AT, SCS

Industry Sponsor: The Ohio State University

Industry Contact(s): Dr. Mark Ruegsegger, Dr. David Lee, Dr. John DeWitt, PT, AT, SCS

Chemical/Biomolecular Engineering:

1st Place:

30 Low Cost Solar Powered Refrigeration for Storing Antiretroviral Drugs Used in the Treatment of HIV Infection in Botswana

Students: Garrett Price, CBE; Kristi Olesik, CBE; Lucas McBride, CBE; Lianwan Huang, CBE

Faculty Advisor(s): Dr. David Tomasko

Industry Sponsor: The Ohio State University

Industry Contact(s): Dr. Michael Paulaitis

2nd Place:

28 Fumigation of Psyllium Husks via Methyl Bromide

Students: Zach Adams, CBE; Alex Woll, CBE; Zach Ballantyne, CBE; Adam Clifford, CBE; Humaid Alghassani, CBE

Faculty Advisor(s): Dr. David Tomasko

Industry Sponsor: Procter & Gamble

Industry Contact(s): Steve Cammarn, Matt Kaczanowski

Civil Engineering:

1st Place:

40 Student Housing Tower Framing Study

Students: Andrew Gyde, CE; Alejandra Chock, CE; Tremayne Mushagahamn, CE; Mike Micklewright, CE

Faculty Advisor(s): Dr. John George, Dr. William Wolfe

Industry Sponsor: N/A

Industry Contact(s): N/A

Computer Science Engineering:

1st Place:

2 Realm of Kaodith

Students: Andrew Buelow, CIS; Mario Carneiro, CIS; Kyle Donovan, CIS; Sam Gutentag, CIS; Stephen Hara, CSE

Faculty Advisor(s): Roger Crawfis

Industry Sponsor: The Ohio State University

Industry Contact(s): Roger Crawfis

1st Place:

48 3D Motion Capture

Students: Jason Kao, CSE; Kevin David, CSE; James Sosan, CSE; Depak Kumar, CSE; Kyle Albert, CSE

Faculty Advisor(s): Dr. Igor Malkiman

Industry Sponsor: David Zimbeck

Industry Contact(s): David Zimbeck

1st Place:

52 Inter-building Guidance System

Students: David Burl, CSE; Shao Zheng, CSE; Nathaniel Dikeman, CSE; Sada Diallo, CSE
Faculty Advisor(s): Dr. Igor Malkiman
Industry Sponsor: Ohio State Biomedical Engineering
Industry Contact(s): Dr. David Lee, Dr. Mark Ruegsegger

1st Place:

43 Find Brutus

Students: Michael Jodon, CIS; Mark Mathis, CSE; Jacob Peddicord, CSE; Carl Shotwell, CSE
Faculty Advisor(s): Moez Chaabouni
Industry Sponsor: EduTechnologic
Industry Contact(s): Brad Henry

1st Place:

148 Djenome-Transcription Factor Target Search

Students: Joel Friedly, CSE; Tremayne Mushayahama, CSE; Edward Powell, CSE; Grant Michalski, CSE
Faculty Advisor(s): Perumal Ramasamy
Industry Sponsor:
Industry Contact(s):

1st Place:

142 MyIM

Students: Hyunjeong Yoo, CSE; Yu Qiao, CSE
Faculty Advisor(s): Dr. Jay Ramanathan
Industry Sponsor: The Ohio State Wexner Medical Center, Integrity Health Partners
Industry Contact(s): James Paat, Ann Scale, Lise Worthen-Chaudhar

Environmental Engineering:

41 Dublin Road Water Plant Ozone/Biologically-Active Carbon Upgrades

Students: Holly Lorton, EE; Bradley Marzola, EE; Kris Roser, EE; Majjie Wilson, EE
Faculty Advisor(s): Dr. Linda Weavers
Industry Sponsor: MWH, City of Columbus
Industry Contact(s): Tim Wolfe, MWH; Mark Eppich, City of Columbus

Integrated & Systems Engineering:

1st Place:

122 Improving the Efficiency and Ergonomic Impact of Water Transportation

Students: Andrew Lien, ISE; Ryan Patton, ISE; Aubrey Shapiro, ISE; Lacey Shearer, ISE
Faculty Advisor(s): Dr. Steve Lavender
Industry Sponsor: Pack H2O
Industry Contact(s): Tony Somers

2nd Place:

114 DATA Bus Route Expansions in the Polaris Parkway Region

Students: Steven Hwang, ISE; Aaron Jones, ISE; John Minor, ISE
Faculty Advisor(s): Dr. Steve Lavender
Industry Sponsor: DATA Bus
Industry Contact(s): Crystal James

Integrated & Systems (6-Sigma) Engineering:

1st Place:

93 Improving Order Accuracy and Customer Satisfaction

Students: Andrea Allison, ISE
Faculty Advisor(s): Dr. Scott Sink
Industry Sponsor: Donatos
Industry Contact(s): Travis Howard

1st Place:

94 Increasing Process Throughput in Abrasive Wheels Production

Students: Kaylane Robbins, ISE
Faculty Advisor(s): Dr. Scott Sink
Industry Sponsor: Diamond Innovations

Industry Contact(s): Michael Mathews

1st Place:

151 Improved Finished Assembly Throughput Capacity of 50%

Students: Jon Corsetti, ISE

Faculty Advisor(s): Dr. Scott Sink

Industry Sponsor:

Industry Contact(s):

2nd Place:

92 Improving Inventory Accuracy

Students: Daniel Garfield, ISE

Faculty Advisor(s): Dr. Scott Sink

Industry Sponsor: Sherwin Williams

Industry Contact(s): Chuck Kletrovets, Bryla Potter

2nd Place:

105 Reengineering Business Development

Students: Amelia Quilon, ISE

Faculty Advisor(s): Dr. Scott Sink

Industry Sponsor: American Bronzing Company

Industry Contact(s): Robert Kaynes

2nd Place:

107 Risk Priority Number Reduction in the Assisted Move-In Process

Students: Michael Fitzsimons, ISE

Faculty Advisor(s): Dr. Scott Sink

Industry Sponsor: Ohio State Department of Student Life

Industry Contact(s): Daren Lehman, Aubrie Smith

Motorsports:

1st Place:

61 Actuation of an Automated-Manual Transmission

Students: Christopher Burns, ME; Luke Debruin, ME; Josh Hendricks, ME

Faculty Advisor(s): Dr. Shawn Midlam-Mohler

Industry Sponsor: Ohio State Motorsports Capstone Program

Industry Contact(s): Dr. Shawn Midlam-Mohler

Multidisciplinary Engineering:

1st Place:

77 EnergyHAWC

Students: James Rowland, ME; Scott Heckler, ME; Sarah Weals, ME; Marcy Kaercher, ME; Chris Schleich, ME; Lee Trask, ME; Brendan O'Shaughnessy, ME; Yufan Ling, ME; Fandi Peng, ECON

Faculty Advisor(s): Dr. Mark Walter

Industry Sponsor: Lawrence Berkeley Research Laboratory, US Department of Energy

Industry Contact(s): Stacy Pratt

2nd Place:

72 AMETEK Wall-Mounted Digital Battery Charger

Students: Matt Ricciardi, ME; Luke Sobota, ECE; Tianyi Chen, ECE; Sam Stuard, ENGPYS

Faculty Advisor(s): Dr. Keith A. Redmill, Bob Rhoads

Industry Sponsor: AMETEK SOLIDSTATE CONTROLS

Industry Contact(s): Phil Irwin