2022 Spring Mechanical Engineering

Design Celebration

Awards Ceremony | Tuesday, May 24th



Welcoming Remarks

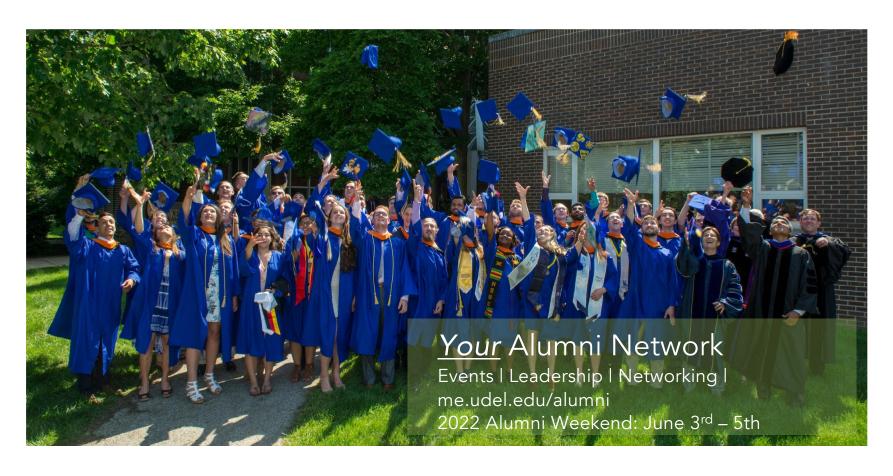




Dr. Ajay Prasad
Professor & Chair, Mechanical Engineering

Department of Mechanical Engineering 2022 Alumni Awards





Dept. Mechanical Engineering Early Career Award





Chengkun Zhang
UD MechE | PhD 2013

- President, Futronics (NA) Corporation
- Formerly with GE Heathcare, focused on medical devices & robotics
- Silver and Bronze Impact Awards for innovation
- Humanoid Robots, Education Robots, and Service Robots

Dept. Mechanical Engineering Distinguished Career Award





Mike Wallace
UD MechE | BME 1991

- CEO & Co-Founder of Devoro Medical & Venture Partner at ShangBay Capital
- Medical device executive and serial entrepreneur
- Inventor or co-inventor of more than 300 patents

Dept. Mechanical Engineering Distinguished Career Award



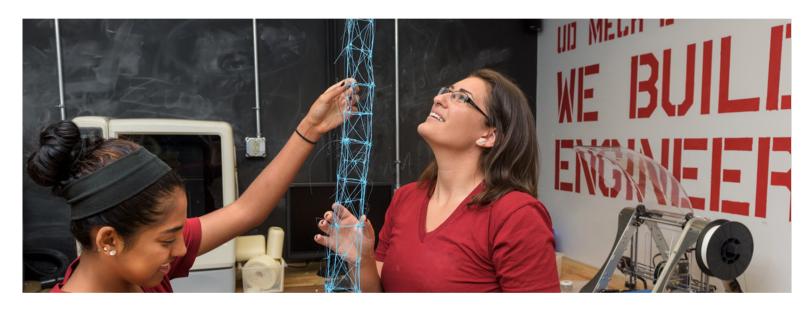


John Gooden UD MechE | BME 1988

- President & Chief Operating Officer of MDavis & Sons, Inc
- 30+ Years Experience in Contracting & Construction Industry
- Service through Delaware Manufacturing Association, UD Alumni Association, Rotary, & National Guard

Thanks to our support team #WeBuildEngineers





- Design Studio Staff: Whitney Sample, Scott Nelson, Ron Cantrell, & Steve Beard
- Academic Advisement: Allie Andrews
- Events & Logistics: Elaine Nelson, Ann Connor, Amy Adams

A (very) big thanks to this guy





Dr. Ajay Prasad
Professor & Chair, Mechanical Engineering

- Chairperson, 2017-Present
- Engineering Alumni Distinguished Professor & Director, Center for Fuel Cell Research
- Fellow of the American Society of Mechanical Engineering
- UD's Excellence in Teaching Award
- Tireless supporter of the UD MechE Program & Its Students

2022 Spring Design Showcase





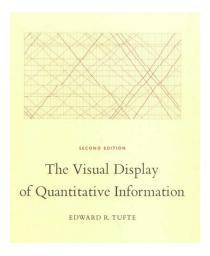
- Technical Communications (MEEG104)
- Freshmen Design (MEEG102)
- Junior Design (MEEG301/304)
- Mechatronics (MEEG467/667)
- Intermediate Heat Transfer (MEEG640)

Technical Communications

Presented by Prof. Jenni Buckley

Summative #1 Winners David Esquivel

Russell Perdue





Summative #2 Nominees

Ryan Robison

Kimberly Marks

Connor McCleary

David Tovar

Thomas Bouck

Karen Scharpf

Pull Toy Individual Design Awards Sponsored by Melissa & Doug® | The Semifinalists

Name	Pull Toy	Name	Pull Toy	Name	Pull Toy
Amelia Klinger	Monkeys	Hermelis Reyes	Lion	Nick Bailey - Dog	Dog
Anastasia Cassanelli	Frog	Isabella Kusters	Wizard Frog	Nick Martino	Great Escape
Austin Bainbridge	Fish	James Mou	A Good Boi	Nicole Cacio	Seal
Benjamin Yaroch	Grasshopper	Jason Vera	Snakey	Owen Conway	Capybara
Brendan Fitzpatrick	Bear	Jiro Guillen	Llama	Redwana Tansim	Humpty Dumpty
Cameron Batterberry	Elephant	Josh Edelson	Draco Dragon	Robert Santos	Berto the Seal
Caroline Morey	Turtle	Kaitlin Dohn	Jellyfish	Russell Perdue	Chipmunk
Colton Bowie	Weenie	Kaitlyn Dohn	Jellyfish	Samatha Gerhart	Octopus
Connor Lammey	Globey	Kevin Foerster	Music Mobile	Sean Degaetano	Puffin Pull Toy
David Esquivel	Turtles	Kylie Taylor	Sloth	Thomas Bouck	Pew Pew
Edward O'Donnell	Fishin' Boat	Lauren DeSantis	Ollie the Otter	Thomas Gordon	Turtle
Edwin Torres	Brontosaurus	Logan Butler	Bee	Thomas McAdoo	Red Baron
Ethan Lettieri	Chameleon	Markos Duey	Skate Buddy	Tim Talbot	Sheldon and Son
Gavin Telfer	Lobster	Michael Anderson	Soaring Blue Bird	Turner Brennan	Hammerhead
Grace Wiley	Bee	Miguel Vasquez	Catching Moby	Zion Lee	Willy the Wriggly

The Best In Show by Melissa & Doug®

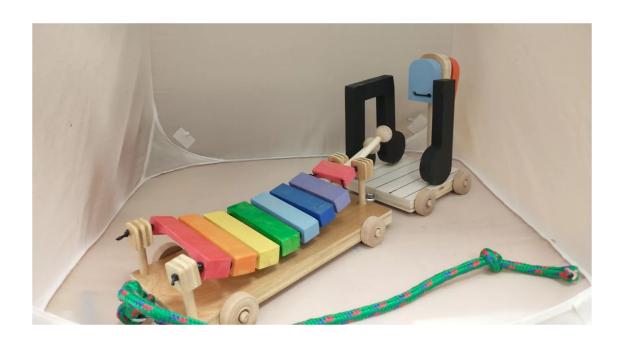
Honorable Mentions Ollie the Otter by Lauren DeSantis

3rd Shelly the Jellyfish by **Kaitlyn Dohn**

2nd Leon the Lion by Hermelis Reyes

1 St Lama the Llama by Jiro Guillen

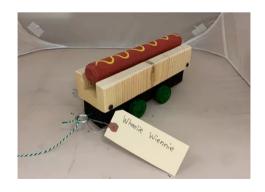
Best Overall Design by MechE Dept



Music Making Mobile by Kevin Forester

Rubber Chicken Award Because You Tried...





Wheelie Wiennie by Colton Bowie



Pooping Panda by Matthew Young

Team Toy Design Awards

Freshmen Design | MEEG102



Excellence in Freshmen Design

Evaluated by Instructor Team | Design Process + Prototype + Communication

Team 112: The Space Puzzle
Allison Kosikowski, Redwana Tasnim, Sylvia Katz, Benjamin
Minner

Team 101: The Velcro Puzzle
Team Members: Aisley Bergdoll, Lucas Castle,
Marissa Dailey, Connor Lammey, Sarah Nichols

Team 122: Magnetic Crane C.Morey, C.Mccleery, G.Wiley, N.Heinlein, I.Kusters

Early Education Award

Evaluated by HDFS Reviewers I Educational Toy



Dr. Jen Gallo-Fox
UD Human Development & Family Studies

Runners Up

Team 128: Modular Vehicle Set Team Members: Noah Brecht, Kenney Madden, Jacob Piretti, Isaac Chandler, Erick Stranko

Team 127: Animal Mix & Match J. Farquhar, A. Ortiz-Cruz, N. Bailey, J. Collins, K. Foerster

Winner

Team 134: OMG Build Your Own Vehicle Carissa Bonner, Kaitlyn Dohn, Zion Lee, Noah Schoeffler

Sponsor's Award

Evaluated by Melissa & Doug® | Design Creativity & Prototype



Runner Up

Team 133: YouDee Amusement Park Owen Ferrone, Kenneth Deel, Cameron Schmidt

Winner

Team 136: The Rube Register Hermelis Reyes, Eddie Torres, Annika Labrador

People's Choice Award

Chosen by YOU I Virtual Project Gallery + Technical Presentations

3rd

Team 124: The Rocking Stroller

Shawn Yong, Malika Iyer, David Esquivel, Franklin Alas, Jiro

Kuroki

2nd

Team 136: The Rube Register

Hermelis Reyes, Eddie Torres, Annika Labrador

1 st

Team 101: The Velcro Puzzle

Team Members: Aisley Bergdoll, Lucas Castle, Marissa Dailey, Connor Lammey, Sarah Nichols

Department of Mechanical Engineering Junior Design

Year-Long Project | MEEG301 + MEEG304



Junior Engineering Design: By the Numbers

136 Students

14 Teams

2 Industry Partners

16 Industry Mentors

1 Really Small Work

Room





Many thanks to our JUNIOR DESIGN MENTORS

Kevin Cresswell Bill Dunfee Nick Filzen Ed Gargiulo Austin Crouse Keith Harman Justin Rigg Adam Bitar
Anthony Dorazio
Kevin Perdue
Chris Sockel
Melody Cerro
Richard Griste
Ryan Tocker

Best Bottle Filling Station

Team 3

Team Members: Matt Conelli, Joe Gugerty, Jonathan Jimenez, Alex McCall, Lance Adrian Mendoza, Jt Palitto, Jakub Raweki, Ryan McMahon, Matthew Richardson

Team 9

Team Members: Zach Cantrell, Dylan Jorgensen, Megan Monteleone, Ryan Rudek, Dean Vanegas, Rory van der Steur, Ben Donohue, TJ Kaifer, Avery Recicar, Ethan Watson

Team 11

Team Members: Daniel Drewnowski, Johnny Lasko, Prathmesh Anant Naik, Raj Shah, Jenny Ziegler, Tyler Cook, Aaron Fieger, Tyler Mehigan, Christina Genario, Alexandra Zurzolo



Best Bottle Capping Station

Team 4

Team Members: Aaron Borell, Michael Danski, Gabe Hall, Jarred McIntire, Mike Molesworth, Jacob Permar, Karlens Senatus, Max Ferry, Noah Stiebritz

Team 5

Team Members: Brandon Burrows, Ted Ellis, Michael Hall, Aaron Berry, Logan McKinney, Camren Monteverdi, Zoe Smith, Joey Tantillo, Audrey Herzig

Team 13

Team Members: Patrick Cronin, Caitlin Kazokas, Valerie Moore, Thomas Schaeffer, Carley Williamson, John Bruhns, Luc Dubois, Cade Keeler, Matt Ricciardi, Matthew Wood



Most Innovative Design

Team 7

Team Members: Chris Bond, Mickayla Harris, Evan McCleary, Nikki Pilla, Nick Ulizio, Andrew Brillante, Brooke Demore, Timmy Hough, Caylin Payne, Holly Tobon

Team 8

Team Members: Daniel Borsykowsky, Lorrha Hitchner, Cassidy McCormick, Sam Rauch, Andrew Brown, Owen Brinker, Doug DiDomenico, Jason Kelsch, Miles Pleasanton, Hannah Towhey

Team 14

Team Members: Sebastian Graper, Rocky Li, John Papadopoulos, Harrison Silverston, Sarah Bartlett, Dominic d'Agostino, David Harkins, Riley O'Connor, Jordan Tatis, Ethan Chappell



People's Choice Award

Team 7

Team Members: Chris Bond, Mickayla Harris, Evan McCleary, Nikki Pilla, Nick Ulizio, Andrew Brillante, Brooke Demore, Timmy Hough, Caylin Payne, Holly Tobon

Best Overall Design

Team 1

Team Members: Tyler Armele, Jordan Carton, Evan Eng, Ben Hemrick, Ben Kokot, Gavin McMahon, Patrick Mraz, Ryan Polino, Jackson Yeatts, Tim Lamberta

Team 2

Team Members: Nick Benzi, Brian Fischer, Vea Hernandez, Alaysia Longmire, Claire Cho, Elias Navarro, Victor Riso, Nick Capriotti, Mike Naab

Team 14

Team Members: Sebastian Graper, Rocky Li, John Papadopoulos, Harrison Silverston, Sarah Bartlett, Dominic d'Agostino, David Harkins, Riley O'Connor, Jordan Tatis, Ethan Chappell



Department of Mechanical Engineering Mechatronics

Course Project | MEEG467/667



Mechatronics "Grid Master" Award

Team 4

Team Members: Marc de Lecea, Amanda Kelly, Rob Samuelson, Matt Urban

Department of Mechanical Engineering Intermediate Heat Transfer

Course Project | MEEG640



Best Performance From a Heatsink

Presented by Prof. Feser

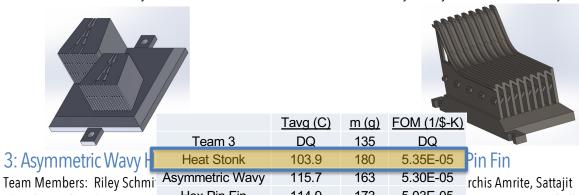


Team Members: Jeff Spencer, Kushal Mehta, Jon Kim, Vaishak Vemmanath Natraj

2: "Heat Stonk"

5.03E-05

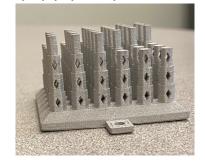
Team Members: James Fernyhough, Alex Kramer, Aditya Shreyas, Farida Ahmed Koly



114.9

173





.::yi, Jazmyne Mitchell

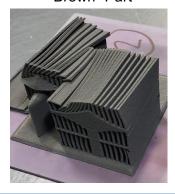
Best Survival of the Debinding Process

Presented by Prof. Feser

"Green" Part



"Brown" Part



Steel Part

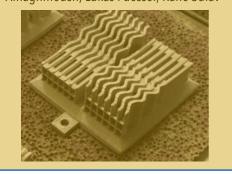


2: "Heat Stonk"

Team Members: James Fernyhough, Alex Kramer, Aditya Shreyas, Farida Ahmed Koly



3: Asymmetric Wavy Heat Sink
Team Members: Riley Schmitt, Abdulaiziz
Alnaghmoush, Lukas Fuessel, Kafle Sulav



4: Hexagonal Pin Fin

Team Members: Archis Amrite, Sattajit Barua, Izzy Krynyckyi, Jazmyne Mitchell



Congrats to all of our students!





You're all winners in our book!

- Technical Communications (MEEG104)
- Freshmen Design (MEEG102)
- Junior Design (MEEG301/304)
- Mechatronics (MEEG467/667)
- Intermediate Heat Transfer (MEEG640)

2022 Spring Mechanical Engineering Design Celebration

Congrats & Have a Wonderful Evening!

Unofficial After-Party Location (Your Profs will join you around 8-ish)

