Robotics Engineering Department

POSTER SESSION, 9:00am to 12:00pm
Robot Pits ~ Sports & Recreation Center

404LensNotFound: Lensless Dragon-fly Sized Aerial Robot Navigation
Name(s) Vivek Reddy Kasireddy, Hudson Kortus, Jahnavi Prudhivi
Advisor Name(s) Nitin Sanket

Agile MAV Navigation through Cluttered Environment
Name(s) Colin Balfour, Evan Kaba, Rohan Inamdar
Advisor Name(s) Nitin Sanket, Guanrui Li

Autonomous Robotic Design for Strategic Adversarial Games
Name(s) Kylie Herbstzuber, Leo Riesenbach, Luca Dang, Elene Kajaia, Mason Sakai, Vishesh Konduru, Dylan Schmit, Graham Mack
Advisor Name(s) Griffin Tabor, Bradley Miller, Xinming Huang

Designing a Blind Quantum Algorithm for Secure Robot Path Planning
Name(s) Sunny Kang
Advisor Name(s) Raisa Trubko, Carlo Pinciroli

Flarebot: Unmanned Firefighting Reconnaissance Robot
Name(s) Nicholas Carignan, Aidan Carter-Frem, Max Gosselin, Trajen Masner, Henry Wagg, TJ Weeden
Advisor Name(s) Mustapha Fofana, Griffin Tabor, Jacob Whitehall

General Purpose Continuum Kinematically Adaptable Origami Robot (GeCKO)
Name(s) Ben Proctor
Advisor Name(s) Cagdas Onal

GR-0X
Name(s) Elliot Ghidali, Fisal Qutubzad, Yael Whitson
Advisor Name(s) Mahdi Agheli

Implementing Tabletop Pick-And-Place on a 3D Printed Humanoid Robot
Name(s) Max Williams, Arjun Vyavaharkar, Aziel Habtemichael, Nicolas Graham, Ethan Ford, Nathaniel Caughron
Advisor Name(s) Taylor Andrews, Pradeep Radhakrishnan

MARS: Reducing Hardware Integration Overhead in Robotic Systems through Language Design
Name(s) Reilly Desai, Olivia Olsen, Colin Masucci
Advisor Name(s) Carlo Pinciroli

Medical Emergency Rescue Drone
Name(s) Caitlin Murphy, Ian Hagglund
Advisor Name(s) Giovanni Pittiglio, Guanrui Li

Nasa Lunabotics 2025-2026
Name(s) Christopher Adzima, Luis Alzamora, Jesse Dawson, Jeremy De La Cruz, Abraham Dionne, John Larochelle, Alana Moretti, Michael Napoleone, Piotr Skoczylas
Advisor Name(s) Kenneth Stafford, Suat Ay, Loris Fichera, Ibrahim Bozyel

Radio, Robot, Recycle: Employing Multimodal Sensing and Actuation for Recycling
Name(s) Stephen Wojcik, Maxwell McCalla, Alec Norton, Karyn Carrion, Kylie Solecki
Advisor Name(s) Giovanni Pittiglio, Bashima Islam

Robotic Plectrum System for Stringed Instrument Characterization
Name(s) Theo Barnes-Cole, PJ Aubin
Advisor Name(s) Scott Barton

Robotic Solution for Automated Loading of Centrifuges
Name(s) Grace Amlicke, Tejas Balcha, and Nicholas Palumbo
Advisor Name(s) Constantinos Chamzas, Mahdi Agheli
Sponsor(s) Aera Therapeutics

Sailbot 2025-2026
Name(s) Arshia Balaji, Benjamin Laster, Bolong Li, Brianna Meisser, Henry Pharris, Steven Vovcsko
Advisor Name(s) William Michalson, Kenneth Stafford

Seacoast Mushrooms - Automated Mycelium Inoculator
Name(s) Elliot Reese, Daniel Raymond, Robert Mellen, Ricardo Croes-Ball
Advisor Name(s) Koksal Mus, Fiona Yuan

Surgical Control Assistant: Live-tablet Platform for an Enhanced Laser-Integrated Robot (SCALPEL-IR)
Name(s) Kimberly Cummings, Leonel Strangman, Diego Pena-Stein, Kang Zhang
Advisor Name(s) Loris Fichera

A System for Watering and Monitoring Plants, S.W.A.M.P. 2.0
Name(s) Cristian Oliveira, Kaloyan Dimitrov, Randy Zhang, Steven Phan
Advisor Name(s) Greg Lewin, Loris Fichera

Think Again: Improving Plan Safety through LLM Informed Risk Analysis
Name(s) Benjamin Cruse, Colette Scott, Gavin Hamburg
Advisor Name(s) Kevin Leahy

Toward Automated Parachute Packing: A Multi-Arm Robotic Approach to Vision-Guided Line Stowing
Name(s) Chenhan Guan, Zheren Li, Fiona Prendergast, Gunnar Rorapaugh, Oliver Van Campen
Advisor Name(s) Constantinos Chamzas, Connor McCann, Mahdi Agheli, Jing Xiao

Towards Better Bionics
Name(s) Aidan Connolly, Jason Gee, Abigail Mansour, Veronika Nowakowski
Advisor Name(s) Cagdas Onal, Connor McCann, Neehal Sharrma

UAV-UGV Collaboration for Sustained Mapping and Navigation
Name(s) Kerry Xiao, Nico Paoli, Jason Albrecht, Achintya Sanjay
Advisor Name(s) Kevin Leahy, Greg Lewin
Sponsor(s) The Charles Stark Draper Laboratory, Inc.

Ultrasound-Based Gesture Recognition for Human-Machine Interaction
Name(s) Aditri Thakur, Dylan Serreyn, Rachel Ellison, Ryan McQuillan
Advisor Name(s) Haichong (Kai) Zhang

Voice-Driven Instruction to Symbolic Task Execution for Automation (VISTA)
Name(s) Khyat Sharma
Advisor Name(s) Jing Xiao, Constantinos Chamzas