Capstone Design Expo

Fall 2022

Georgia Tech
Capstone
Design Expo

December 5, 2022
McCamish Pavilion
Atlanta, Georgia

Dear Capstone Design Expo Judges and Guests:

Georgia Tech opened its doors in 1888 with mechanical engineering being its only degree-granting program during the Institute's first eight years. Mechanical Engineering (ME) grew from the original shop or trade culture to a professional curriculum with experimental laboratories and multi-disciplinary challenges. Today, with almost 3,000 students, the Woodruff School is the largest mechanical engineering program in the U.S., graduating over 600 bachelor's degrees, 200 master's degrees, and 65+ doctoral degrees each year. From its early beginning and throughout the Woodruff School's history, one thing has always remained constant: excellence in creating and building products, devices, and systems that make the world a better place!

As part of our relentless drive for excellence, the Woodruff School embarked on an ambitious journey to create a renaissance in engineering education and make its undergraduate program among the very best in the world. Part of this initiative was to reintegrate and supercharge the "create-innovate-design-build" stem of the curriculum. Over the last decade, the Woodruff School has encouraged and enabled all its students to engage in hardware prototyping for validation of their Capstone Design projects. The School continues to provide a variety of resources, including access to state of the art machines, expertise, and assembly space to all its students, through the newly renovated Flowers Invention Studio, the Montgomery Machining Mall, the ME Electronics Shop, and the IDEA Lab – all housed in a contiguous space on the second floor of the MRDC building. This state-of-the-art facility has helped foster the maker culture on campus and support numerous collaborative cross-disciplinary design and innovation projects. Given these facilities, it is not surprising that the Woodruff School also leads the drive for multi-disciplinary Capstone teams, and we can point with pride to strong partnerships with Industrial Design, Computer Sciences, Biomedical Engineering, and Electrical and Computer Engineering.

The Capstone Design Expo, which was started by the Woodruff School over a decade ago, is now held twice per year and attracts several thousand attendees to Georgia Tech to evaluate and celebrate our students' accomplishments. The Fall 2022 Expo will feature 110 teams from five different schools. Of those, ME has the largest number of teams, 23, in addition to the 16 other interdisciplinary teams that have ME students. More than half of the teams have an external sponsor in the form of a company, entrepreneur or non-profit organization supporting their project. A special CREATE-X section focused on supporting entrepreneurial teams will also pitch their startup ideas at the expo.

Going forward we seek to build on our vision and proven record of accomplishment to advance engineering education and to significantly enhance the quality of our graduates as they enter the workforce. We thank you profoundly for joining us on this journey and for your continuous support in educating mechanical engineering graduates who will have tremendous impact and provide positive change in our world. Come see for yourself and let me welcome you to the Georgia Tech Capstone Design Expo!

Amit S. Jariwala
Director, Georgia Tech Capstone Design Expo
Director of Design & Innovation, G.W.W. School of Mechanical Engineering

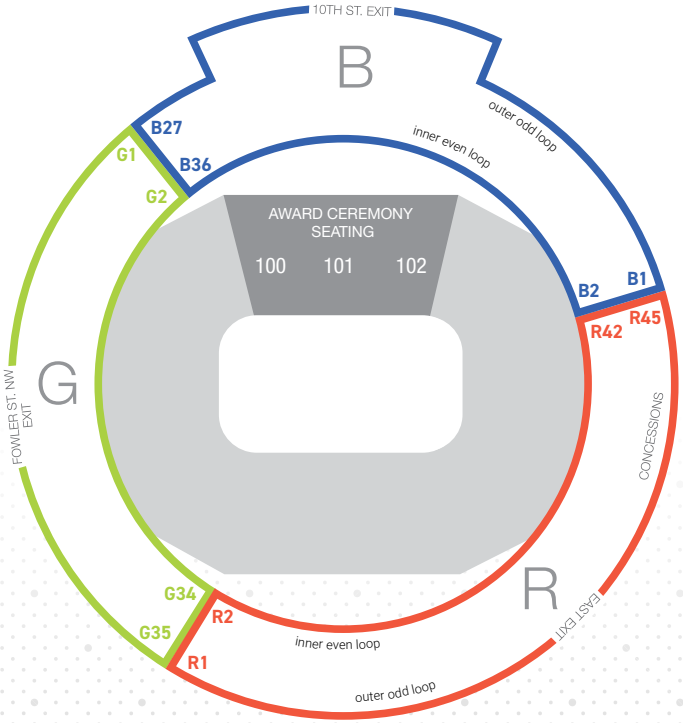
Capstone Design Expo

The Georgia Tech Capstone Design Expo is one of the largest student design expos in the United States, showcasing student innovations designed and built during the Capstone Design Course. Students work in teams to solve industry problems, develop innovative tools to assist researchers, or work on their own entrepreneurial ideas.

Past expos have produced projects that have yielded significant results for industry sponsors, saving them upwards of millions of dollars in research and development costs. The networking experience for students gives them the opportunity to make a lasting first impression on potential employers; some have walked away with an invitation to visit a potential employment opportunity with some of the sponsors. This booklet features a few of the teams from the School of Mechanical Engineering.

http://mecapstone.gatech.edu/

Expo Layout Map



Even-numbered tables follow the inner loop & odd-numbered tables follow the outer loop of each circular section.

Mechanical Engineering Teams

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**This list shows only 39 teams that comprise of students from Mechanical Engineering, out of a total 110 teams*

AMAZON SMART KITCHEN

Amazon Lab 126: AI/ML Hardware/Interaction Experiences in the Kitchen

CONSUMER PRODUCTS

SPONSOR
Amazon Lab126

ADVISOR
Wayne Li

MEMBERS
Alex Chung
Allen Ding
Elizaveta Egorova
Isabelle Crumm
Kyung Min Kim

DESCRIPTION
Amazon Smart Kitchen's project is focused on designing and prototyping a "Smart-Kitchen" product that will make organizing the kitchen, planning meals, and coordinating people more time-efficient and intuitive for young families and people living together.

PRIMARY EMAIL CONTACT
mink922@gatech.edu

EASY MODE

Energy Efficient Window Coverings

SUSTAINABILITY

SPONSOR
Levelor, Inc.

ADVISOR
Richard Simmons

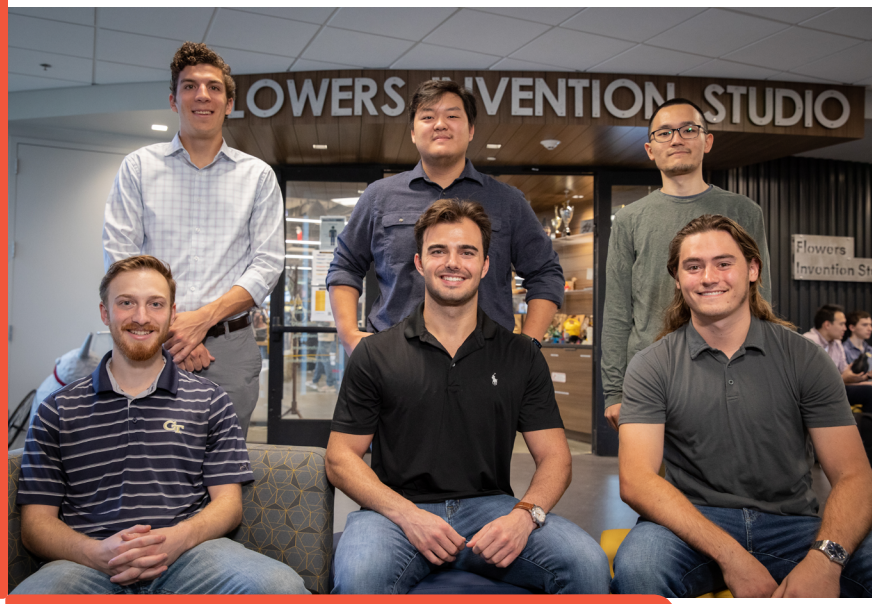
MEMBERS
Eric Fan
Joyce Karanouh-Schuler
Lauren Henderson
Patrick O'Malley
Sathappan Somasundaram
Tyrell Ramos-Lopez

DESCRIPTION
Easy Mode's project is focused on creating energy efficient window coverings to improve residential temperature regulation and lowering electricity bills by increasing the thermal insulation of window coverings and automatically changing their position to either block light and heat energy or allow them to permeate a home depending on desired temperature.

PRIMARY EMAIL CONTACT
pomalley8@gatech.edu

EMOWERGENCY

Micro-generator powered by lawn mower



SUSTAINABILITY

SPONSOR
Georgia Tech Strategic Energy Institute - CNES lab

ADVISOR
Richard Simmons

MEMBERS
Anderson Page
Andrew Hintzman
Casey Teodecki
Jejin Park
Jeremy Bers
Ju Young Shim

DESCRIPTION
Emowergency's project is focused on designing and producing a low-cost alternative to home generators for use in powering select home appliances in case of a power outage. Given the number of homeowners who own a gas-powered push mower, the product will utilize the existing walk-behind lawnmower engine as the prime mover.

PRIMARY EMAIL CONTACT
ahintzman3@gatech.edu

ENERGY ABSORBER

Minimizing Damage in Rear End Accidents

AEROSPACE/AUTOMOTIVE INDUSTRY

SPONSOR
N/A

ADVISOR
Michael Tinskey

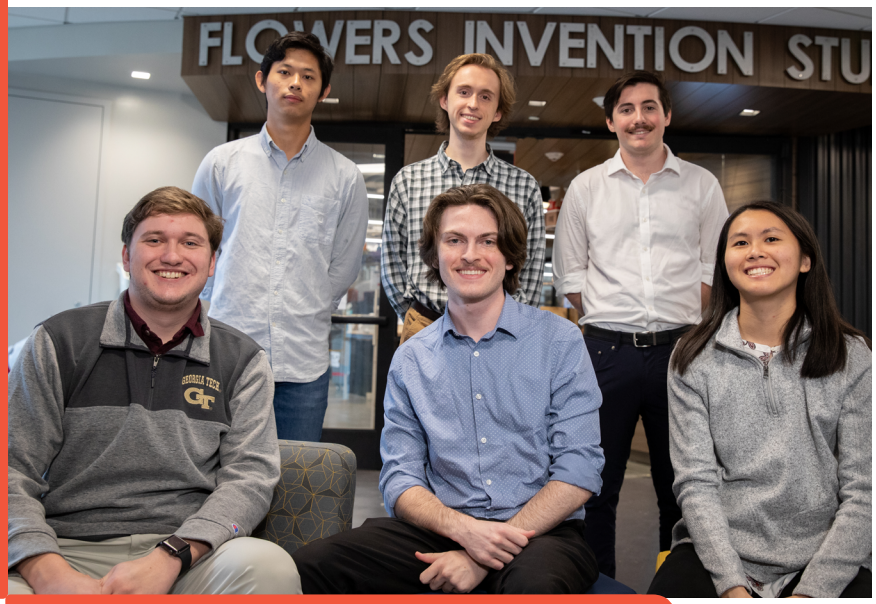
MEMBERS
Antonio Lucas
Darren Lim
Owen Ribes
Richard Sims
William Lay

DESCRIPTION
Energy Absorber's project is focused on inventing a solution that removes the additional risks associated with hitch receivers while providing enhanced safety features in vehicles during collisions.

PRIMARY EMAIL CONTACT
dlim64@gatech.edu

FIT-N-GO

Universal Drone Mount



AEROSPACE/AUTOMOTIVE INDUSTRY

SPONSOR
Michael Tinskey

ADVISOR
Michael Tinskey

MEMBERS
Bronson Zell
Christina Chan
Frederic Chirol Hill
Giang Nguyen
Lucas Nicewander
Mark Hite

DESCRIPTION
Fit-n-Go's project is focused on developing a drone mount for future Vertically- Integrated Project (VIP).

PRIMARY EMAIL CONTACT
lnicewander@gatech.edu

KOWALSKI

Nekton-Autonomous Under-ice Vehicle

MECHATRONICS

SPONSOR
Georgia Tech

ADVISOR
Mick West and Amit Jariwala

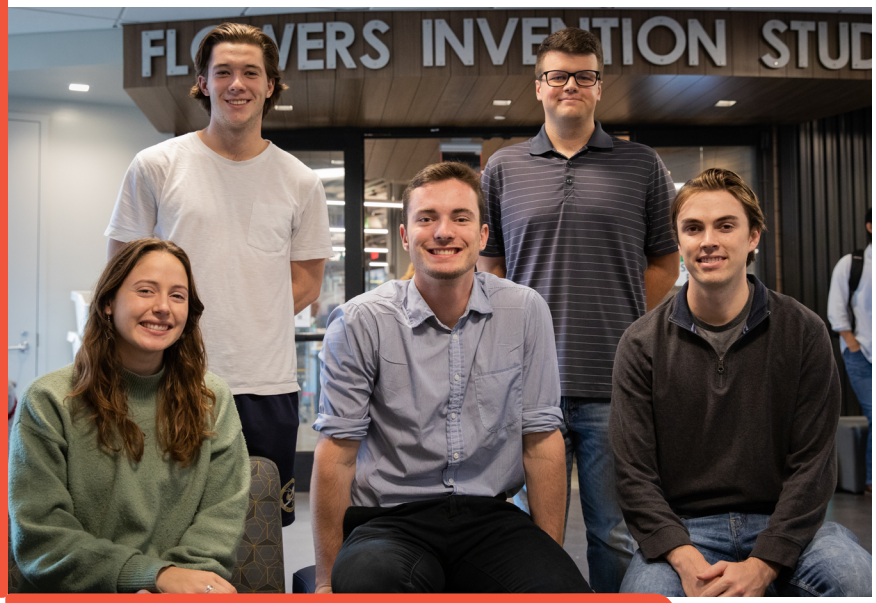
MEMBERS
Cody Page
Duncan Guy
Hamidou Diallo
Hanna Goldfarb
Luke Maran
Nicole Derosa

DESCRIPTION
Kowalski's project is focused on designing and prototyping an autonomous underwater robot to aid scientists in the exploration of sub-ice polar environments.

PRIMARY EMAIL CONTACT
hgoldfarb@gatech.edu

LAWN POWER

Creating an Emergency Use Microgenerator from a Household Lawn Mower



SUSTAINABILITY

SPONSOR
Richard Simmons

ADVISOR
Itzhak Green

MEMBERS
Brendon Hester
Jacob Weitzel
Jessica Lowe
Ryan Giometti
Thomas Yocum

DESCRIPTION
Lawn Power's project is focused on developing a low-cost microgenerator attachment that is compatible with a household push lawn mower, designed to be used in emergency situations.

PRIMARY EMAIL CONTACT
ryan.giometti@gatech.edu

MACHINE DESIGNERS

Rubble Wrangler

MECHATRONICS

SPONSOR
N/A

ADVISOR
Itzhak Green

MEMBERS
Brian Walker
Calvin Sringam
Daniel Verlander
Morgan Biagioni
Nicole Alfano
Samarth Saraf

DESCRIPTION
Machine Designers' project is focused on building an autonomous robot used to quickly map areas and new obstacles, and generate a path that is best for first responders to avoid risk and reach victims in a timely manner.

PRIMARY EMAIL CONTACT
nalfano3@gatech.edu

ROUTEWAY

RouteWay

CONSUMER PRODUCTS

SPONSOR
CREATE-X

ADVISOR
Fisayo Omojokun

MEMBERS
Avya Manchanda
Ema Goh
Fikremariam Mengistu
Jeniveve Vaia
Raj Srivastava
Shengyuan Huang
Taryn Edwards

DESCRIPTION
RouteWay's project is focused on building a centralized platform for small VPN provider operations.

PRIMARY EMAIL CONTACT
egoh9@gatech.edu

SOMNUS SYSTEMS

Somnus Sleeper

BIOENGINEERING

SPONSOR
N/A

ADVISOR
Todd Sulchek

MEMBERS
Arina Kochneva
Craig Ackerman
Dylan Sutch
Jacob Evans
Matthew Adams
Nicholas Walker

DESCRIPTION
Somnus Systems' project is focused on creating a safe and easy to use inclined sleeper that prevents a baby from being able to get itself into a life-threatening position.

PRIMARY EMAIL CONTACT
SomnusSystems.Engineering@gmail.com

SUGAR AND SLICE

Fruit & Vegetable Slicer

SUSTAINABILITY

SPONSOR
Amba Farmers Voice and GT-SLS

ADVISOR
Richard Simmons

MEMBERS
Mason Randall
Nicholas Simon-Brecke
Nicholas Rokos
Zachary Bellis

DESCRIPTION
Sugar and Slice's project is focused on designing and configuring a simple, efficient, and cost-effective fruit and vegetable slicer that is capable of improving farmers' ability to preserve and prepare more produce than they are currently capable.

PRIMARY EMAIL CONTACT
mrandall32@gatech.edu

THE ARTISTS OF THE SEA

Prince William Sound Underwater Profiling Vehicle

MECHATRONICS

SPONSOR
Mick West/Georgia Tech Department of Electrical and Computer Engineering

ADVISOR
Mick West and Richard Simmons

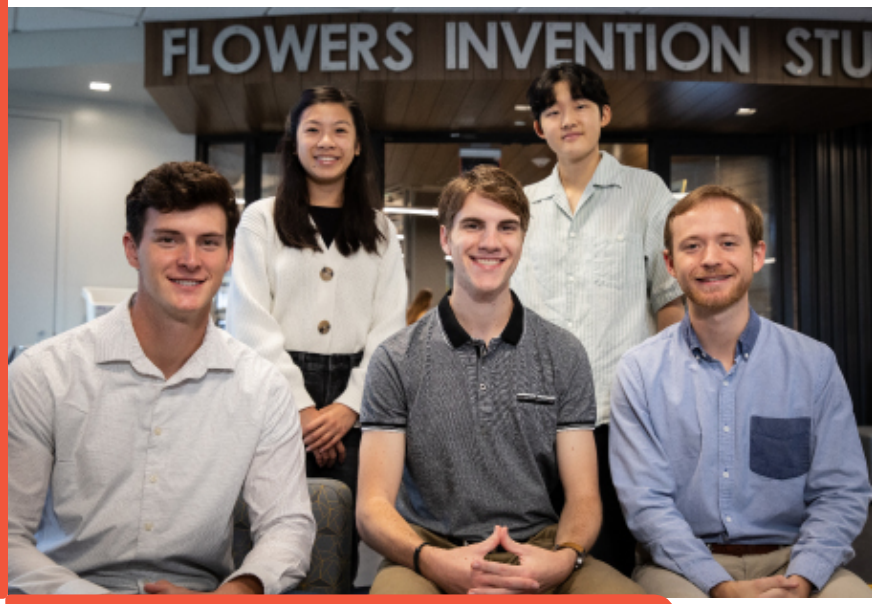
MEMBERS
Brandon Woodward
Brandon Sutherland
Chandler Pitts
Tarun Goyal
William Moore

DESCRIPTION
The Artists of the Sea's project is focused on creating a new autonomous underwater vehicle to collect data on the water in the sound.

PRIMARY EMAIL CONTACT
tgoyal9@gatech.edu

THE DESTROYERS

Xcalibur Massage Device



BIOENGINEERING

SPONSOR
Xcalibur Massage Devices

ADVISOR
Tequila Harris

MEMBERS
Andrea Vu
Andrew Imig
Eri Maejima
Sawyer Zadan
Taylor Teasley

DESCRIPTION
The Destroyers' project is focused on creating a brand-new device to reach those tough-to-reach areas with pulsating massage technology.

PRIMARY EMAIL CONTACT
andrew.imig@gatech.edu

TRANZSPORTER 2.0

TranzSporter 2.0

INDUSTRIAL TOOLING/MANUFACTURING

SPONSOR
Tie Down

ADVISOR
Yan Wang

MEMBERS
Brooke Waller
Daniel Rogers
Justin Bates
Molly Colburn

DESCRIPTION
TranzSporter 2.0's project is focused on creating a new design for Tie Down Engineering's best-selling product, the TranzSporter, that will reduce operation hazard, mechanical complexity and remove freefall hazards.

PRIMARY EMAIL CONTACT
jbates47@gatech.edu

WORKER BEES

Beach Glider

CONSUMER PRODUCTS

SPONSOR
Florida Toy Company

ADVISOR
Jianxin Jiao

MEMBERS
Clara Buckley
Gabriel Krikorian
Joao Felipe De Avilez Demoro
Kathryn Ollenburg
William Avery

DESCRIPTION
Worker Bees' project is focused on designing a toy glider that will be used as entertainment for young children.

PRIMARY EMAIL CONTACT
GTWorkerBees@groups.gatech.edu

BUNNY HOPKINS

Bunny Hopkins Wooden Climbing Toy

SUSTAINABILITY

SPONSOR
Shamik Dasgupta

ADVISOR
Steven Sprigle and Wayne Li

MEMBERS
Blake Underwood
Christian Manabat
Hunter Schaufel
Karlijn Verberne
Sophia Abreu

DESCRIPTION
Bunny Hopkins' project is focused on designing an extensible, sustainable, and open-ended climbing play structure to encourage active play for children from ages 12 to 60 months old.

PRIMARY EMAIL CONTACT
sophia33abreu@gmail.com

HOMECOMING

Mars Sample Return: Energy Efficient Low Profile Gripper

AEROSPACE/AUTOMOTIVE INDUSTRY

SPONSOR
Self-Sponsored

ADVISOR
Richard Simmons

MEMBERS
Dylan Phelps
Jorge Gutierrez
Joshua Zeisloft
Nicolas Gomez
Olivia Lenaghan
Richard Husemann

DESCRIPTION
Homecoming's project is focused on designing an energy efficient low profile gripper intended for use on the Mars Sample Return Mission (estimated: 2028).

PRIMARY EMAIL CONTACT
olivialenaghan@gatech.edu

MATERIALS

Cloth Material Handling and Feeding

INDUSTRIAL TOOLING/MANUFACTURING

SPONSOR
YKK (USA) Inc

ADVISOR
Tequila Harris

MEMBERS
Bonnie Brownlee
Charu Malhotra
Floyd Horton
Kendrick Dang
Lydia Stanford
Tudor Hadade
Zachary Nease

DESCRIPTION
Materials' project is focused on developing a device which automates the separation of bundles of fabric to ready a swatch for feeding into a sewing machine.

PRIMARY EMAIL CONTACT
bbrownlee7@gatech.edu

PATIENT CONNECTIVITY

C.A.R.E. (Connectivity Across Remote Environments)

BIOENGINEERING

SPONSOR
AstraZeneca

ADVISOR
Timothy Brothers and Amit Jariwala

MEMBERS
Aditya Singh
Kunal Patel
Noah Horton
Towfigh Noparast
Wesley Sweeney
Zachary Cardin

DESCRIPTION
Patient Connectivity's project is focused on designing a non-intrusive wearable device that passively monitors the health data of residents within underserved rural communities where there is little digital infrastructure to interpret which locally prevalent ailments may be attributed to their environment.

PRIMARY EMAIL CONTACT
wsweeney3@gatech.edu

SNAKES

Graffiti Robot

MECHATRONICS

SPONSOR
Tristan Al-Haddad, Gerry Chen

ADVISOR
Yan Wang

MEMBERS
Derrick Richardson
Jerred Chen
John Kim
Phillip Kim
Ricky Patel
William Li

DESCRIPTION
Snakes' project is focused on working on GTExpo Robot, a fast and quiet cable-driven robot that will be installed to create complex dry erase marker art on the Price-Gilbert library windows.

PRIMARY EMAIL CONTACT
jchen788@gatech.edu

STRETCHTECH

StretchTech

BIOENGINEERING

SPONSOR
N/A

ADVISOR
Todd Sulchek

MEMBERS
Anna Lummus
Banks Jackson
Caleb Sparks
Jacob Wang
Jessica Bradley

DESCRIPTION
StretchTech's project is focused on creating an independently-controlled stretching device for those in wheelchairs with limited mobility who are unable to stretch without assistance.

PRIMARY EMAIL CONTACT
alummus6@gatech.edu

TEAM NOVACC

Novacc Breathing Apparatus

BIOENGINEERING

SPONSOR
Ken Wright - Novacc

ADVISOR
Tequila Harris

MEMBERS
Chanyeong Choi
Eugene Kim
John Vaughan
Kevin Li
Myung Chul Kim
Zhaozhou Tang

DESCRIPTION
Team Novacc's project is focused on creating a safe and portable breathing device that will efficiently kill airborne respiratory viruses in order to protect front-line health care professionals.

PRIMARY EMAIL CONTACT
jvaughan42@gatech.edu

YOU'VE GOT A FRIEND IN ME

Vibration minimization across dynamic links of magnetically levitated nano-precise scanning stage

INDUSTRIAL TOOLING/MANUFACTURING

SPONSOR
ASML

ADVISOR
Yan Wang

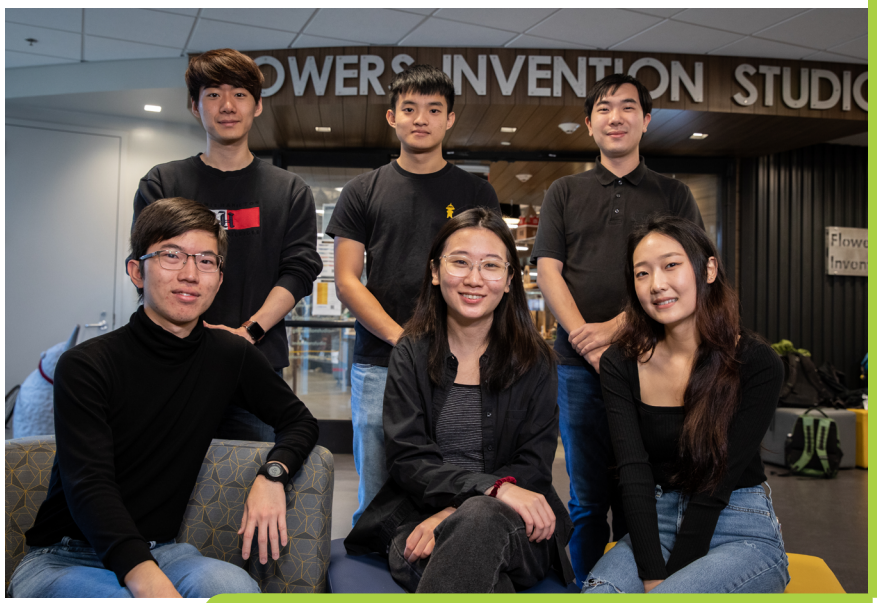
MEMBERS
Anshul Vardhan
Deepkumar Patel
Dhruv Tripathi
Johnson Ngo
Karthik Chennupati

DESCRIPTION
You've got a friend in ME's project is focused on proving one or multiple effective yet novel solutions that could act as a basis for further research and integration by ASML engineers. This will be accomplished through simulation software and calculations.

PRIMARY EMAIL CONTACT
anshul.vardhan@gatech.edu

ADAPTABLE MECHANICS

Quiet cooling alternatives to direct water cooling of magnetically levitated nano-precise scannin



INDUSTRIAL TOOLING/MANUFACTURING

SPONSOR
ASML

ADVISOR
Jianxin Jiao

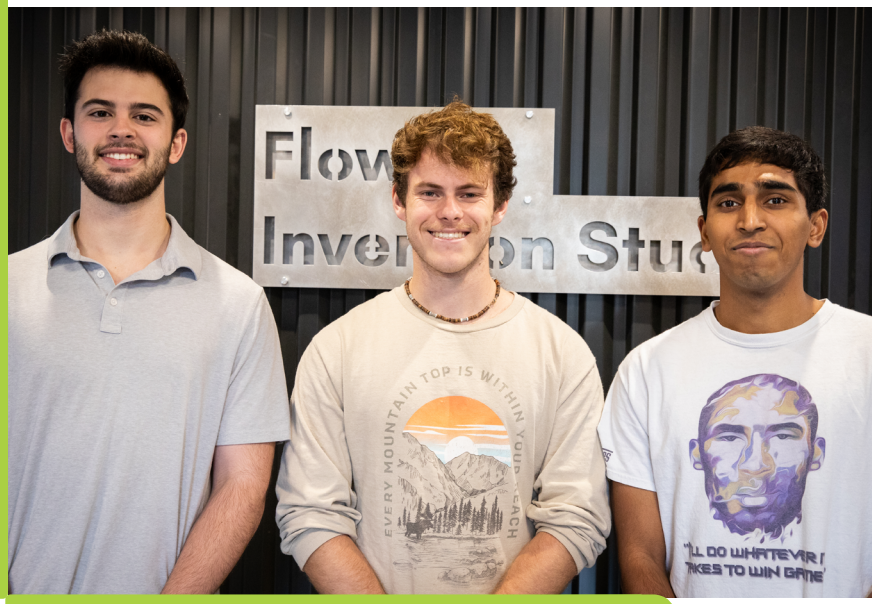
MEMBERS
Andrew Tai
Heather Jo
Kyeonghun Min
Nelson Jiang
Rachel Yun En Goh
Sze Hou Loh

DESCRIPTION
Adaptable Mechanics' project is focused on identifying alternative thermal cooling solutions that have high heat dissipation capacity and low vibrational effects on photolithography machines.

PRIMARY EMAIL CONTACT
sloh7@gatech.edu

ASTRAEUS

Astraeus



CONSUMER PRODUCTS

SPONSOR
N/A

ADVISOR
Michael Tinskey

MEMBERS
Eric Abel
Joshua Bredbenner
Max Gagnon
Rohit Vepa

DESCRIPTION
Astraeus' project is focused on designing a satellite communication device for hikers or other travelers that often experience situations of poor cell coverage. The device will serve as a mobile hotspot that will allow customers to send messages from any location.

PRIMARY EMAIL CONTACT
eabel6@gatech.edu

BEE SAFE

Safe and Motorized Bee Smoker

SUSTAINABILITY

SPONSOR
Student

ADVISOR
Itzhak Green

MEMBERS
Dillan Morrison
Jose Gomez
Kyle Murphy
Liza Sheen
Praneet Ramakrishnan
William Garner

DESCRIPTION
Bee Safe's project is focused on creating a safe and motorized bee smoker.

PRIMARY EMAIL CONTACT
dmorrison39@gatech.edu

BIONIC ARM

Mobile Arm Support

BIOENGINEERING

SPONSOR
Craig H Neilsen Foundation

ADVISOR
Stephen Sprigle

MEMBERS
Catherine Sun
Chinonye Mbeledogu
Madison Lovelace
Tynan Purdy

DESCRIPTION
Bionic Arm's project is focused on designing a mobile arm support for persons with central cord spinal cord injury (SCI) to assist them in performing a series of functional activities to increase their level of independence.

PRIMARY EMAIL CONTACT
csun315@gatech.edu

FRED AND FRIENDS

Lovely Interactive Robotic Worm

MECHATRONICS

SPONSOR
N/A

ADVISOR
Mary-Ann Weitnauer and Amit Jariwala

MEMBERS
Bailey Griffin
Bailey Rende
Garrett Botkin
Kakeru Kobayashi
Riley Wilkins

DESCRIPTION
Fred and Friends' project is focused on designing, building, and testing a mechanical worm that will reside in an interactive art exhibit in the Ferst Center.

PRIMARY EMAIL CONTACT
bgriffin41@gatech.edu

GEPPETTO SQUAD

Mechatronic Push Puppet Toy

CONSUMER PRODUCTS

SPONSOR
Florida Toy Company

ADVISOR
Jianxin Jiao

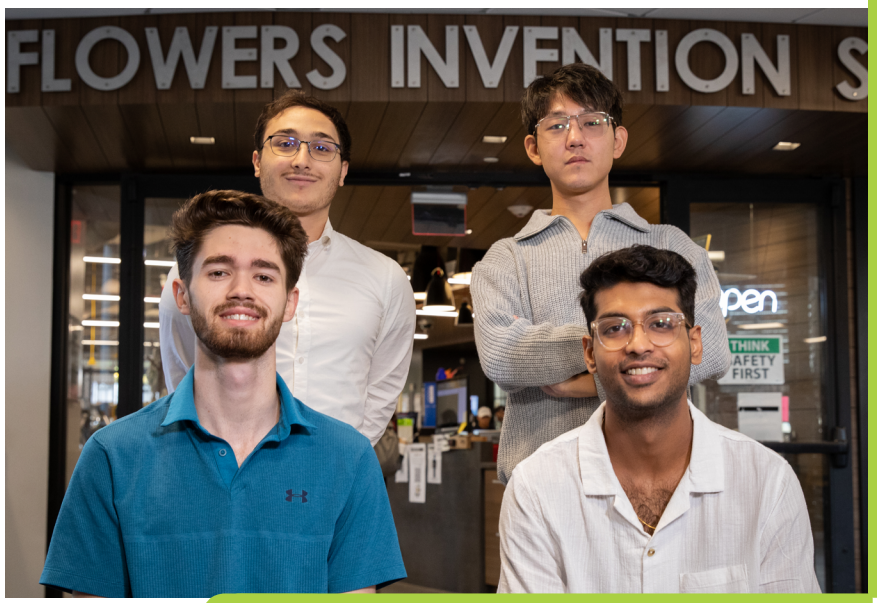
MEMBERS
Ashaan Facey
Bijee Jackson
Jadon Pauling
Martha Woldeab
Oliver Low

DESCRIPTION
Geppetto Squad's project is focused on improving upon existing push puppet design to add an impressive variety of user control through the use of software to manipulate motions.

PRIMARY EMAIL CONTACT
bjackson@gatech.edu

GROUP ZERO

Automated Solar Panel Cleaning



SUSTAINABILITY

SPONSOR
N/A

ADVISOR
Jianxin Jiao

MEMBERS
Abdallah Mansour
Dylan Mason
Vishwajit Subramanian
Yinan Li

DESCRIPTION
Group Zero's project is focused on developing an automated solar panel cleaning system using electrostatic repulsion.

PRIMARY EMAIL CONTACT
vsubramanian44@gatech.edu

GUTTER GEEKS

Dedicated Gutter Cleaning Tool

CONSUMER PRODUCTS

SPONSOR
TTI

ADVISOR
Richard Simmons

MEMBERS
Brett Delozier
Jesus Franco
Joshua Mosher
Joshua Herrera
Kaitlyn Comstock
Tyler Leach

DESCRIPTION
Gutter Geeks' project is focused on creating a gutter cleaning tool that can eliminate current problems and alleviate the mundane nature of the job.

PRIMARY EMAIL CONTACT
jfranco34@gatech.edu

ION CARE

Design of Trapped Ion Quantum Computer Chamber

INDUSTRIAL TOOLING/MANUFACTURING

SPONSOR
Yan Wang

ADVISOR
Yan Wang

MEMBERS
Daniel Costantini
Dojun Lee
Ian McCune
John Respert
Katherine Elliott
Nadim Kanazi
Robert Dunning

DESCRIPTION
Ion Care's project is focused on designing an ultra high vacuum and vibration isolated chamber for a quantum computer.

PRIMARY EMAIL CONTACT
kjelliott@gatech.edu

SENIOR DESIGNERS

Interactive Blooming Flowering Plant

MECHATRONICS

SPONSOR
Mary Ann Weitnauer

ADVISOR
Mary Ann Weitnauer and Amit Jariwala

MEMBERS
Aditya Munagapati
Audrey Ahlenius
Elena Michnovicz
Katie Bishop
Matthew Johnson
Mohit Singh

DESCRIPTION
Senior Designers' project is focused on creating an animatronic, realistic blooming flower with petals that bloom in response to changes in a participant's relative hand height.

PRIMARY EMAIL CONTACT
emichnovicz@gatech.edu

THE 1000LB CLUB

Strawsquatch

INDUSTRIAL TOOLING/MANUFACTURING

SPONSOR
Swift Straw

ADVISOR
Yan Wang

MEMBERS
Alexander Naphin
Andrew Rohweder
Brandon Mack
Cameron Collins
Luke Teverino
Samuel Derry

DESCRIPTION
The 1000lb Club's project is focused on combining a tractor's passes 1-3 into one single pass, reducing the total number of passes from six to four.

PRIMARY EMAIL CONTACT
anaphin3@gatech.edu

THE BETA BEES

Small Hive Beetle (pest) Removal System

SUSTAINABILITY

SPONSOR
Sandia Sawin and GT-SLS

ADVISOR
Jianxin Jiao

MEMBERS
Advik Jain
Antonio Alexandre Mendonca
Athina Maria Bellonia
Connor Price
Luo-Yu Shieh
Sabrina Castro

DESCRIPTION
The Beta Bees' project is focused on prototyping a device that removes the small hive beetles and their larvae from the hive without hurting the surrounding bees and the wax.

PRIMARY EMAIL CONTACT
scastro@gatech.edu

THE KIWIS

Hedge Trimmer with Removable Blades

CONSUMER PRODUCTS

SPONSOR
TTI

ADVISOR
Amit S. Jariwala

MEMBERS
Alexander Vitale
Amarsaikhan Jargalsaikhan
Hasanain Karim
Mary Judson
Michael Dean

DESCRIPTION
The Kiwis' project is focused on re-designing the RYOBI Hedge Trimmer with a way to temporarily reduce the existing blade length for shipping to be re-sized by users upon purchase of tool.

PRIMARY EMAIL CONTACT
amara.13@gatech.edu

Thank You to Our Sponsors

Georgia Tech College of Engineering

George W. Woodruff School of Mechanical Engineering

me.gatech.edu