

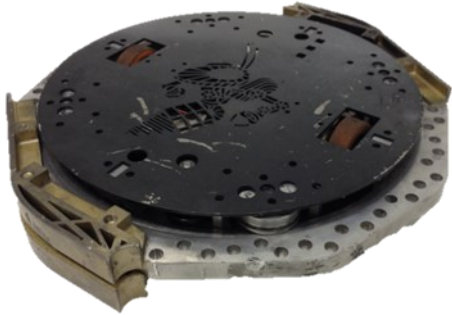
## BATTLEBOTS

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Our BattleBots team focuses on building rugged modular combat robots with hardened steel weapons.

We compete with entrants in 120, 30, 12, and 3 pound weight classes at various competitions. Last year the team traveled to Harrisburg, PA.

We leverage CNC and water-jet fabrication techniques to construct aluminum and steel structural members for our fighters.



## IARRC

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The International Autonomous Robot Racing Competition focuses on rapid decision making and quick maneuvering for smaller vehicles.

Relying heavily on vision and other sensory systems, we leverage reactive control to stay safe while racing a modified RC car platform.

Our team, the only American entrant, took first place last year through victories in the circuit and drag race challenges.



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## THANK YOU TO OUR SPONSORS

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Georgia Tech Institute for Robotics  
and Intelligent Machines



The Georgia Tech RoboJackets, founded in 1999, is a student run organization dedicated to the promotion, education, and advancement of robotics through competition and outreach initiatives.



[WWW.ROBOJACKETS.ORG](http://WWW.ROBOJACKETS.ORG)

# ROBOCUP

Our RoboCup team works with a small fleet of agile mobile robots which must autonomously compete with others to play 6 v 6 soccer.

The robots contain custom control and radio boards, custom drivetrains featuring fabricated omni-wheels, and 3D printed cover shells.

Overhead cameras relay the orientation and location of our players to a central computer, which must coordinate our team to outplay opponents.



# IGVC

The Intelligent Ground Vehicle Competition puts university teams against one another in fielding robust off-road autonomous navigation platforms.

Each year, our team travels to Rochester, MI to compete with over 40 teams at Oakland University.

Students design, fabricate, and program our mobile robot which must bear a 20lb payload while avoiding debris and obstacles along a course outlined via GPS waypoints.



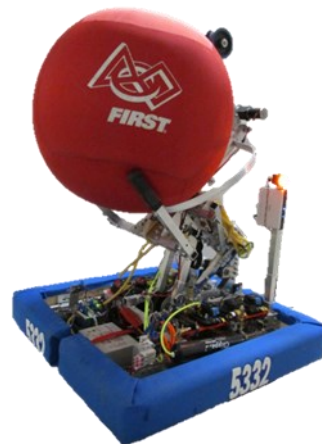
# OUTREACH



The Outreach Team teaches engineering fundamentals through activities geared toward the *FIRST* family of programs.

Each year, our team hosts several workshops and rapid prototyping activities open to all area middle and high school students.

Our members act as mentors to facilitate one team's participation in FRC, leading students to field a 120lb robot which must complete a unique game challenge each year.

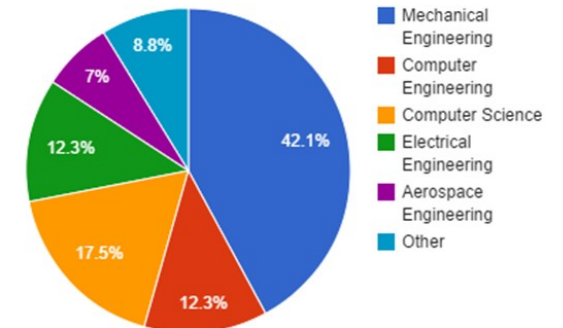


# MEMBERSHIP

Our competition project teams vary in size and technical backgrounds. We draw heavily from Mechanical Engineering, Electrical Engineering, and Computer science majors, though we're open to all interested students.

RoboJackets has 109 active undergraduate and graduate members. We've exhibited continued growth over the past 5 years. Below are some graphs that show some of the diversity of our team.

RoboJackets Membership by Major



RoboJackets Membership by Year

