

TEAM SPECS

School name: Georgia Institute of Technology

Team name: Georgia Tech Savannah Robotics

Home state: Georgia

Distance traveled to the international competition: 8,083 km (5,023 mi)

First-time MATE ROV competition participant: No, competed in 2009 competition



Rear row L to R: Nick Parham, *Sophomore Electrical Engineering, Electrical Understudy*; Dongsik Chang, *Senior Electrical Engineering, Electrical Consultant*; Patrick Lizana, *Senior Mechanical Engineering, Manipulator Design*; Spencer Burch, *Senior Mechanical Engineering, Design Lead*; Steven Bradshaw, *Junior Mechanical/Electrical Engineering, Team Lead*
Mid row L to R: Alfredo Santos, *Senior Mechanical Engineering, Manipulator Design*; Brandon Groff, *Senior Computer Engineering, Software Lead*; Evelyn Kim, *Sophomore Mechanical Engineering, Mechanical Understudy*; Bridgette Reisinger, *Sophomore Electrical Engineering, Electrical Understudy*; Hoang Nguyen, *Senior Electrical Engineering, Electrical Consultant*; Angel Berrocal, *Senior Electrical Engineering, Electrical Consultant*
Front row L to R: Chasen Born, *Senior Mechanical Engineering*; Lisa Hicks, *Junior Electrical Engineering*

ROV SPECS

ROV name: ROV-Beta

Total cost: Total cost: \$23,291.73; Donated amount: \$10,341.60

Primary material(s) used in construction: steel for hull; ABS plastic for manipulator and sub systems

Approximate dimensions in metric units: 35.56 cm tall x 45.72 cm wide x 60.96 cm long

Total weight in AIR in kilograms: 32.65 kg

Safety features: internal fuse block for all electronics; shroud over all thruster propellers; shrink wrap over all wiring; circuit breaker on shore power; rubber feet to avoid sliding while on vessel

Special features: BPSS (Bilge pump suction strafe) system allows strafing of vehicle as well as suction system to collect crustaceans (not shown); dual hydraphone system for phase delay autonomy; twin manipulators (not shown); steel hull for strength; National Instrument's CompactRIO to implement algorithms; National Instrument's Compact Vision System to perform image processing

