



WWW.ROBOJACKETS.ORG



Overview

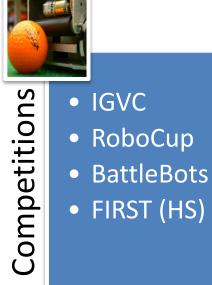
• Student Organization

- Charted in ME Dept (1999)

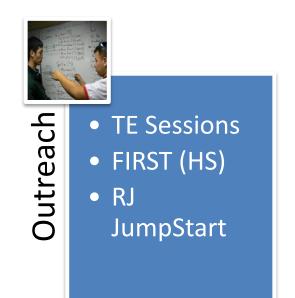
- Highly Multidisciplinary
- Meeting in Student Competition Center (SCC)
- Promote, Educate, Advance
 - Competitions, Outreach, Independent Projects







Activities



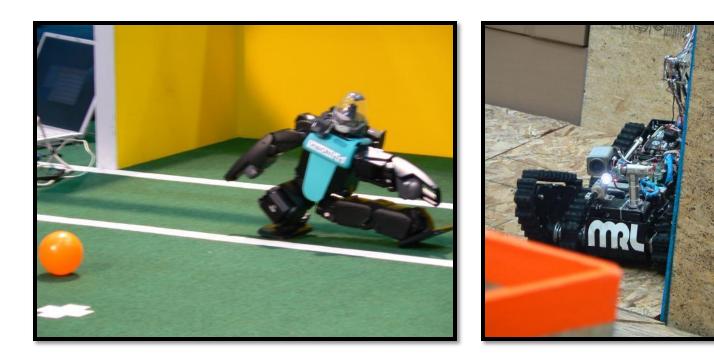




- HexaPod
- IK Arm
- UberBoat
- Custom Roomba
- Sidewalk printer
- Downhill Car







Soccer & Rescue

ROBOCUP





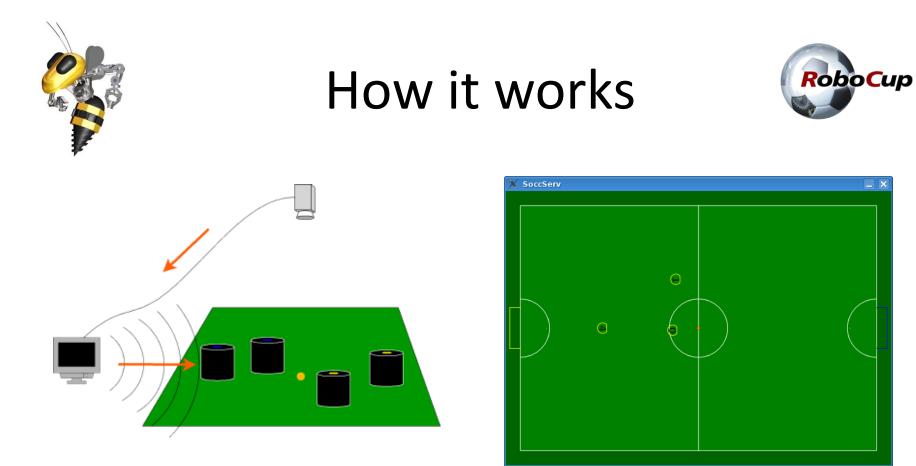
Overview



- Fully autonomous
- Coffee can sized
 - 5 Identical
- Controlled by
 - Over head cameras
- Wireless communication
- Indoor vision

Soccer Game





Typical system setup

Computer drawn field

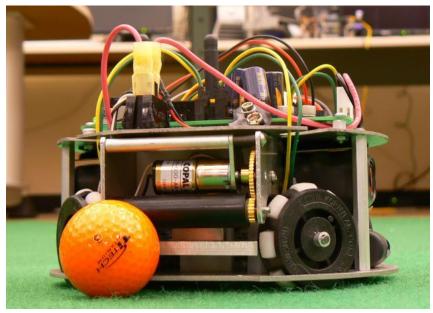




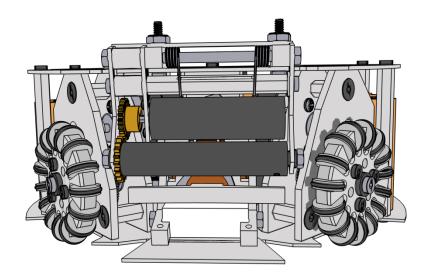
Overall Comparison



2007



2008



RoboJackets



Omni Wheels









2007 World Event









Intelligent Ground Vehicle Competition

IGVC









- Fully autonomous
- 300 lb (largest)
- Off-road
 - Ramps, Sand pits
- Controlled by
 - Rear mounted camera
 - Laser range finder
 - GPS
 - Player / Stage Network
- Outdoor vision



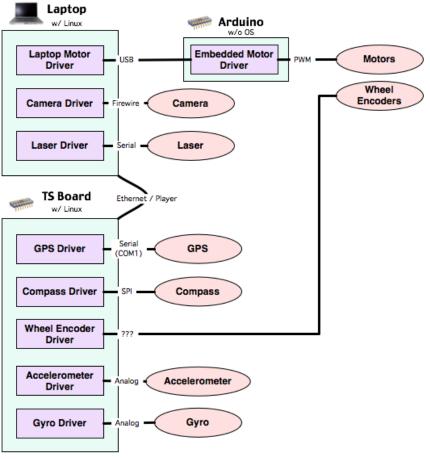
How it works



Diagram



Robo-Jackets



Flow Chart



2007 Competition









For Inspiration and Recognition of Science and Technology

FIRST





FIRST



- Provide a handful of local high school teams with funding for build
- Work in SCC w/ 1 team during build season
 - Tech High (No Relation to Georgia Tech)
- Team Leaders
 - Brian
 - Roman







BattleBots



Remote Control

Robolackets

- Heavy weight class
- Engages in combat







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