



RoboJackets

FIRST - IGVC - BATTLEBOTS - ROBOCUP

2009 Intro Meeting

Thursday, August 27, 2009

www.robojackets.org



Officers

- President → Stefan 5th year Aerospace
- Vice President → Paul 4th year EE
- Treasurer → Mick 5th year Aerospace
- Secretary → Jannice 2nd year IE
- PR Chair → Dan 5th year Management



Overview

- Student Organization
 - Chartered in ME Dept (1999)
- Highly Multidisciplinary
- Meet in Student Competition Center
 - AKA Tin Building (btw Skiles, Webber, and Coon)
- Promote, Educate, Advance
 - Competitions, Outreach, Independent Projects



Organizational Structure

- Officers
- Project Manger
- Subteams
 - Mechanical
 - Electrical
 - Programming
- IGVC
 - Jacob Schloss
- RoboCup
 - Alex Cunningham
- BattleBots
 - Bryan Cochran
- FIRST
 - Mick Roper
- TE Sessions
 - Andy Bardjgy



IGVC



- Autonomously navigate a course
 - Avoid barrels, cross ramps, stay in lines





IGVC 2010



- Use Candi as dev
- Build new robot
- Goals
 - New mechanical base
 - Motor controller
 - IMU
 - GPS navigation

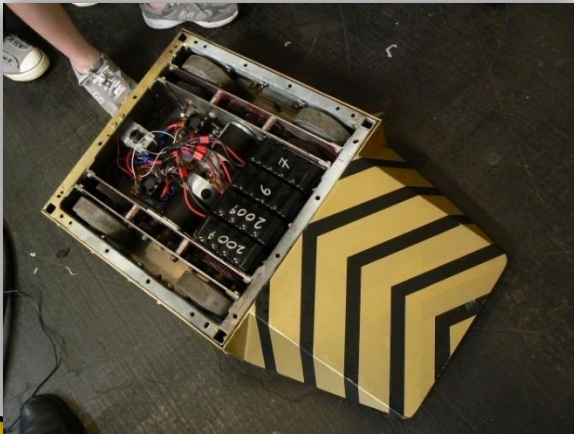




BattleBots



- Middle weight class
- Remote control
- Competed since 1999
- Destruction





BattleBots 2010



- Kinetic Weapon (Spinner)
- 2 wheel drive
- Aluminum Frame
- RoboGames in San Francisco
- More to come

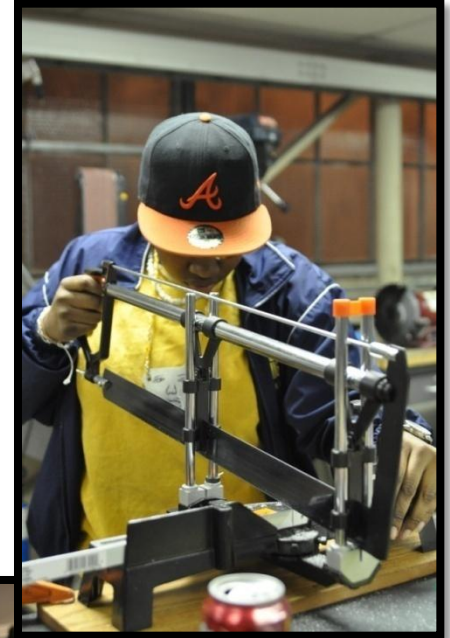




FIRST



- Work with Tech High (Team 2420)
- Two Competitions
 - GRITS (offseason in Sept.)
 - Peachtree Regional
- Designing – Autodesk Inventor
- Programming – LabVIEW
- Fabrication – SCC Building





FIRST Schedule



- Fall Semester
 - GRITS (Sept. 18-19)
 - Manpower for TE Sessions
- Spring Semester
 - Host FIRST Kickoff in January
 - Build (SCC & Tech High)
 - Peachtree Regional





RoboCup



- 5-on-5 Robot Soccer (SSL)
 - Drive @ 4m/s
 - Shoot @ 10 m/s
 - Score from 5m
- Indoor w/ overhead cameras
- Ranked 2nd in US
 - Ahead of MIT/Harvard

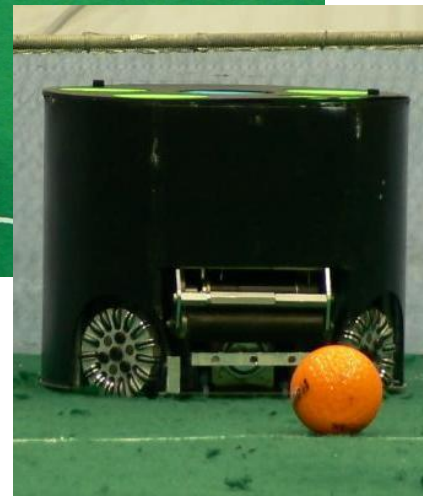




RoboCup 2010



- New Robot Team
 - Mark III
 - Better kicking
 - Better control
- Improved software
 - Smarter more adaptive soccer
- July 2010 in Singapore





TE Sessions



- 1st Session Sept. 15
 - Tue 5:00 – 7:30pm
- Basic Sessions
 - High school training
- Advanced Sessions
 - Member training
- Final Competition
 - Open FTC Scrimmage



Things to do

- OPEN HOUSE: Saturday 2pm to 5pm
- Find a team & pay dues (\$35 per semester)
 - Shirt Size
- Join real mailing list
- Sign up for wiki



Open House

- 2pm to 5pm this Saturday
- Come by see our shop, tools, workspace
- Shop located in Student Competition Center
 - Bldg No. 48

