

Team Scrapbook

2010 - 2011

Arrival Robotics
(817) 571-5522 www.arrivalrobotics.com
Description: ARBOT CONTROLLER
File Name: ARobot
Date: 12/20/10 8:24:44p
Sheet: 1 of 1 REV: 1
Drawn by: Aaron P

ROBOT CONTROLLER

BASIC STAMP II

RC SERVO MOTORS

STEERING MOTOR

USER SERVO

USER SERVO

COPROCESSOR

H-BRIDGE

BUZZER

DUAL H-BRIDGE MOTOR DRIVER

PROTECTIVE FUSE

Stuyypulse 694!



Our team is divided into three sections: engineering, programming, animation, and marketing.

Engineering is the largest sub team that builds the robot, while the programmers write the software used to control the robot.

Marketing takes care of many things, ranging from website management, outreach, fundraising, videography and photography.

We had:

- Participated in Internships working at aerospace engineering firm Cox and Co.
- Modeled the rebuilt World Trade Center Site
- Made a salable robotic arm for Makerbot
- Participated in NYFIRST Student Leadership Assembly
- Worked on city-wide advertising program and new events at the regional

We helped:

- The Science Olympiad for the tech events
- To coordinate volunteer opportunities with the Key Club
- To organize the aquatic robotics challenge run by the U.S. Coast Guard which brings interest to robotics
- Improve FIRSTConnects Us

Media



Our faculty advisor, Rafael Colon, was featured in New Yorker of the Week! We were also featured in the World Journal, a Chinese newspaper.



We update and promote FIRST through these media outlets:

- Facebook
- Twitter
- iTunes
- YouTube
- Blip.tv
- Amazon
- “The Lab” video series that shares our FIRST robotics experience



Stuyvesant Robotics

New York, N.Y.



• We had held many demos to introduce about FRIST and share our robotics experience.

- Booksale fundraisers
- Tribeca festival
- New York State Fair
- 1st Annual NY Maker Faire
- At the sponsor D.E. Shaw's "Kids Robotics Day"



Community Outreach

- FRC Team (3645)
- We mentor:
- the Metropolitan Montessori FLL Team
 - Forest Hills High School



We held programming workshop before the build season during the summer about java.

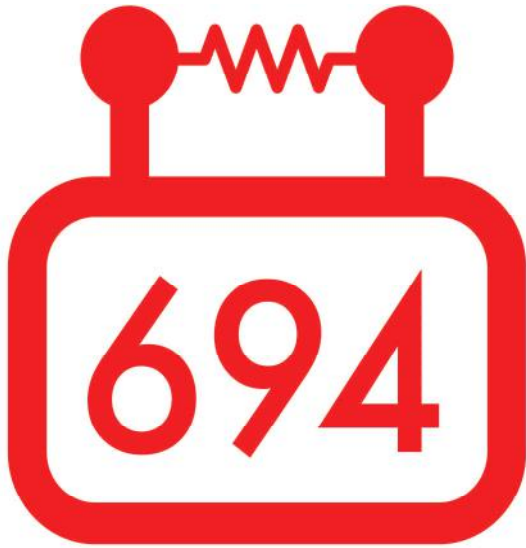
We also held an 8-week engineering and electronics workshop with Collab Inc. for middle school girls from the Urban Assembly of Math and Science for Young Women.

After the earthquake in Haiti, we raised \$300 for Doctors Without Borders and mentored a FTC team with mostly Haitian members.

Every year, we organized a canned food drive where we collected over 100 pounds of food.

We also participated in NYC AIDS Walk last spring.





Stuyvesant High School
345 Chambers Street
New York, NY, 10282

www.stuypulse.com
Email:
info@stuypulse.com

Stuypulse Team 694

Sponsors

D.E. Shaw & Co.
Ann and Donovan Moore
Time Inc.
Credit Suisse
Con Ed

Stuyvesant H.S. Alumni Association

Dr. Rosabella Shek
Stuyvesant High School Class of '60
The Systems Group

Special Thanks to:

NYSE Euronext
Cox & Co.
JavaRanch.com
Funny Garbage