

It's only been three years – three years since I first walked into a garage lined with machines, first watched the robot traverse the field from the bleachers, and first stayed up to build the robot.

Now, I no longer walk into a garage because I instead walk into Room 612. I no longer watch from the bleachers because I now coach from the driver's station. And, I am no longer surprised when I stay up for robotics, because it is what I love to do.

Just as I have grown, so have the prowess, image, and efficiency of *FIRST* Team 846. I have developed invaluable skills on the team that I would never trade for anything. Communicating with corporate sponsors, building a team image, and working with machines are now experiences that will undoubtedly place me ahead as I approach studies in engineering. As I finish my final year as a Funky Monkey, I hope to see none other than growth in the inspiring activities taken on by our members each and every day.

For all those out there, join robotics! As for me, it was a leap of faith that now makes me who I am.

-Diane Wang, Co-President
2012-2013



I just wanted to say that it's been really impressive to see how the team has come together to make continuous improvements to the robot over the course of the season. It's been especially awesome to see the progression of the climbing mechanism; from being unable to hang at Boston, to accomplishing a quick 10 at SVR, and now finally being able to go for 20 at Champs ... the continuous improvements to the shooting and collecting abilities of the robot have really molded the Ultimate Funky Object into an impressive machine.

...I really wanted to thank the parents, and especially the mentors, for all the continuous support, advice, and dedication they have provided day in and day out for the students. The team would not be as great as it is today if we did not have such a great support community, and that starts with adults who recognize that this entire competition is about teaching and inspiring students. Chinmay, myself, and other alumni have been talking ... and remember the various life lessons and words of wisdom we've picked up in our past experiences. This is something that I hope all students appreciate and will continue to value as they take part in FRC – more than just the robot, all the invaluable skills you learn now (technical, communication, etc.), will stick with you past the end of the competition. ...

Stay prideful, stay spirited, and stay determined – good things will come...
Go Funky Monkeys!

Aditya Majumdar
Columbia University '15



If I imagine my life as a big machine, then robotics is the place where I learn to place each bearing, each gear, and each wire into its respective place. To me robotics is a place where I can always find a friend, enjoy myself, and learn. My three years in robotics have brought experiences and memories which will continue to follow me in life. This club has taught me lessons that will follow me into my future career. And I established friendships which will most likely last forever.

When I first thought of joining robotics I thought I would not be smart enough to do anything useful, but after I joined the team I realized this wasn't the case; the mentors and veteran members took me in and taught me machinist techniques and design skills to the point where I could build a part on almost any machine in our workshop. Working alongside members and mentors who are passionate about what they do is the reason why this team will always have a place in my heart. If life is a big machine, robotics would be the place I learned to design and manufacture it.

-Michael Lin, Public Relations
2012-2013

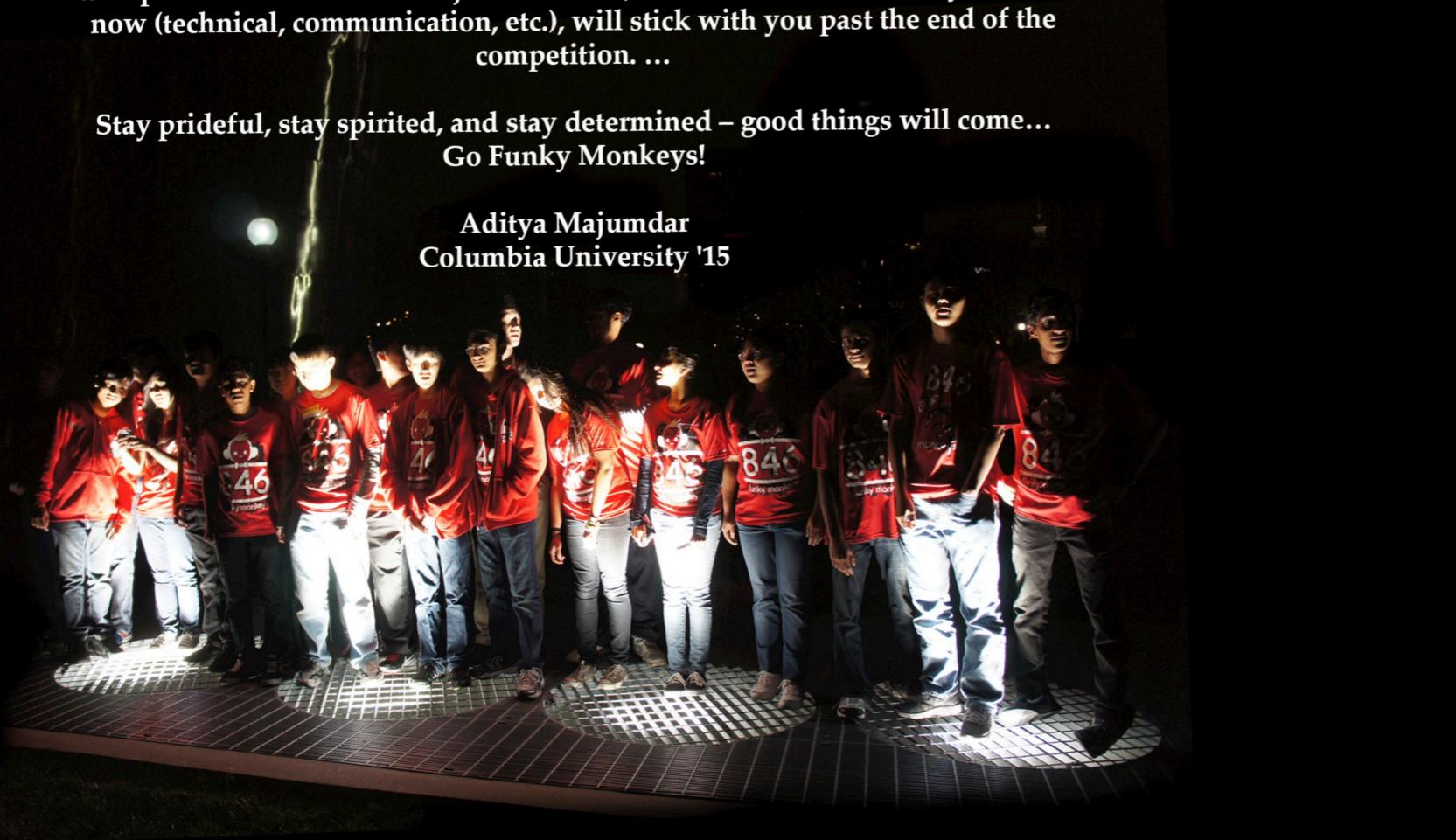
Photo: Michael Lin

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LYNBROOK ROBOTICS – FIRST Team 846
Ultimate Ascent – 2013

ULTIMATE ASCENT 2013

Lynbrook High School Robotics

The Funky Monkeys

FIRST Team #846

MENTORS

David Giandomenico	Head Coach
Yang Xie	Mech. Design & Founder
Ralph Lowd	Mentor
Fernando Reyes	Machinist
Payton Wong	Machinist
Gerald Haas	Team Enthusiast
Nancy Haas	Team Enthusiast
Dan Peake	Machine & Design
Wes Harrison	Mentor
Alex Kanaris	Software & Control
Ravi Iyer	Project Manager
Roy Chua	Marketing
Milind Joshi	Software

LYNBOOK ADVISORS

George Peck	Staff Advisor
Gail Davidson	Principal
Judy Boehm	Financial Specialist
David Erwin	Asst. Principal of Activities
Steve Chamberlain	School Facilities Manager

2013 MEMBERS

OFFICERS

Brian Axelrod	Co-President
Diane Wang	Co-President
Miles Chan	Vice-President
Tony Peng	Software Lead
Anurag Makineni	Co-Hardware Lead
Eric Yeh	Co-Hardware Lead
Akshat Agrawal	Treasurer
Michael Lin	Public Relations
Matt Wang	Event Manager
Michael Chang	Secretary
Raphael Chang	Webmaster
Michelle Chang	Historian
Brent Yi	Honorary Officer
Joshua Yuan	Honorary Officer
Nikunj Khetan	Honorary Officer

SENIORS

Brian Axelrod
Michelle Chang
Myung-Geun Chi
Grace Deng
Christina Lin
Jessica Qian
Reo Sato
David Tsai
Diane Wang
Jackie Zhang

JUNIORS

Akshat Agrawal
Miles Chan
Michael Chang
Andy Cheng
Andrew Deng
Anshuman Dikhit
Eshaan Gandhi
John Hong
Julia Huang
Toshitha Jagadeesh
Abhishek Johri
Maitreyee Joshi
Michael Lin
Eva Lomazov
Anurag Makineni
Sanjay Saravanan
Harrison Shen
David Shim
Aurea Siu
Pranav Sujitkumar
Joseph Thomas
Manasa Tipparam
Aneesh Vempaty
Jason Xie
Yihao Xu
Darren Yang
Eric Yeh

SOPHOMORES

Rishabh Bhasin
Arshi Bhatnagar
Amanda Chang
Raphael Chang
Selina Chang
Tanmay Chordia
Patrick Dong
David Fine
Sahil Hasan
Kevin Huang
Nandita Iyer
Sabiq Khan
Nikunj Khetan
Abhiram Kothapalli
Winston Lan
Megan Lau
Angela Li
William Lu
Sarah Park

Varun Parthasarathy
Akshar Patel
Tony Peng
Prasann Ranade
Sahil Sancheti
Louie Shi
Alex Shmakov
Harman Singh
Matthew Tan
Alexis Thoeny
Manoj Vasishta
Ben Wang
Matt Wang
Caroline Wu
David Yang
Brent Yi
Claire Yuan
Joshua Yuan
Jessica Zheng

FRESHMEN

Cameron Bazargan
Brandon Chen
Lawrence Cheng
Cyrus Cheung
Daniel Chin
Benedict Chua
Pransu Dash
Roy Dey
Rohit Dhamankar
Ryan Eckert
Aayush Gupta
Austin Hsieh
Lydia Huang
Raymond Huang
Stanley Huang
Eric Huynh
Anish Irrinki
Rahul Iyer
Gauri Jain
Christopher Jin
Yash Joshi
Gargi Kand
Kabir Kapoor
Alison Kou
Jessie Kuo
Grace Lam
Dorothy Li
Gary Li
Owen Li
Nicolas Liang
Richard Liu
Emily Lo
Julia Ma
Srinjoy Majumdar
Arvin Ng
Yeejay Ng
Akhil Padmanabha
Vadim Pelyushenko
Karthick Ravikumar
Nikita Seth
Jaimee Shim
Andrew Si
Alicia Siu
Chetan Somani
Brandon Strong
Benhur Tadiparti
Urmila Venkataramani
Cynthia Wang
William Wang
Bryan Wu
Dylan Xu
Nancy Xu
Kenny Yuan
Eric Zeng
Andy Zhang
Ronald Zhang
Erik Zhao
Emily Zhong



FIRST World Championships – St. Louis, MO

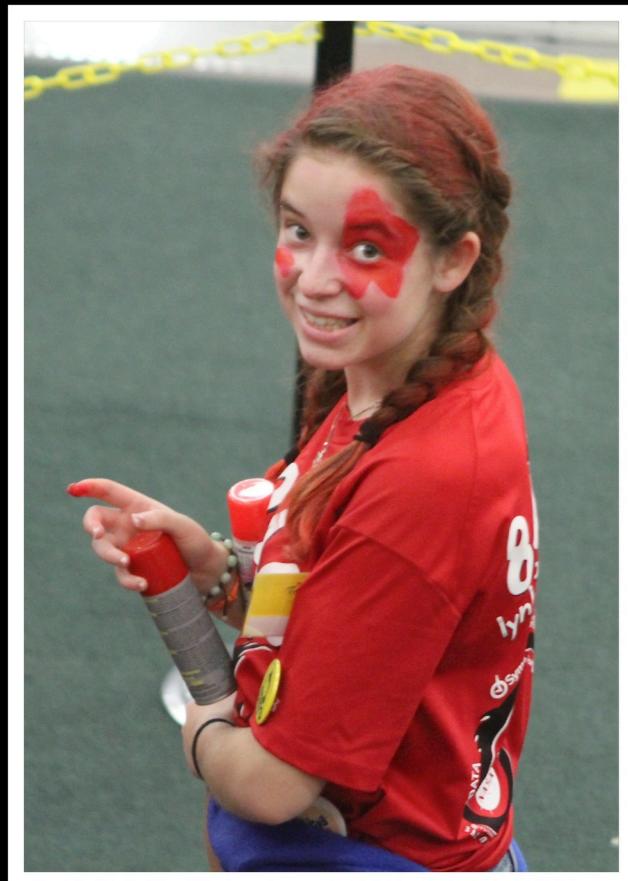


Professor Makineni
welcomes
you to CAD 101.

OFF-SEASON ACTIVITIES

CALGAMES FALL 2012

The Tail of the
Monkey shoots
and scores.



Eva Lomazov gets ready to paint
battle stripes on emcee
Mark Leon's face.



The four biggest
monkeys, co-president
Brian Axelrod, mentor
Mr.G, mentor Mr. Xie,
and co-president
Diane hold up their
CalGames awards.



ROBOT DEMONSTRATIONS



The FUHS Foundation teams show off their robots, after watching others have a satisfying meal at the Crab Feed.



Miles is awed by the driving prowess of the young drivers at the San Jose Tech Museum.



John Coyne, Western Digital's CEO, teaches Brian how to drive on two wheels.

FLEET WEEK



Jessica Zhang makes a sale at our annual Fleet Week fundraiser in San Francisco.

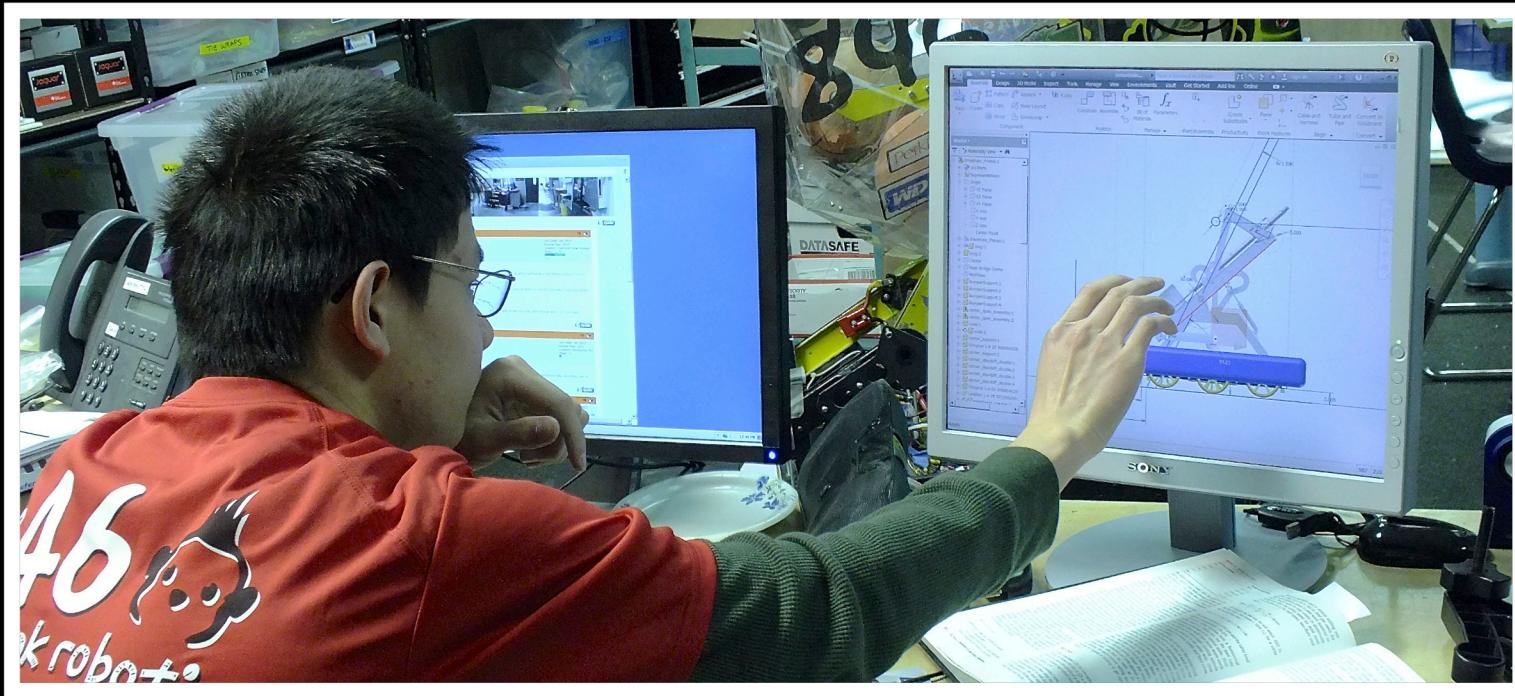


Akshat catches the winning pass at our annual intradistrict barbecue.

FALL BBQ



Chairman Diane inaugurates Brian as her co-tsar.



"My master plan is coming together."

-Miles

BUILD SEASON

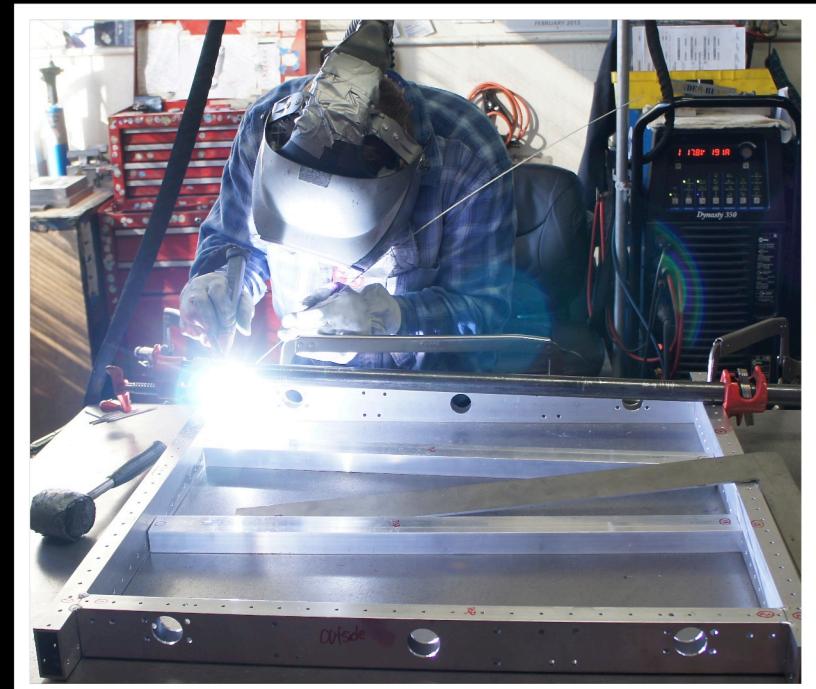


Mr. Iyer and Akshat assemble the open of the home -built pyramid.



Julia and Rahul cut pipe for the 10ft. tall pyramid.

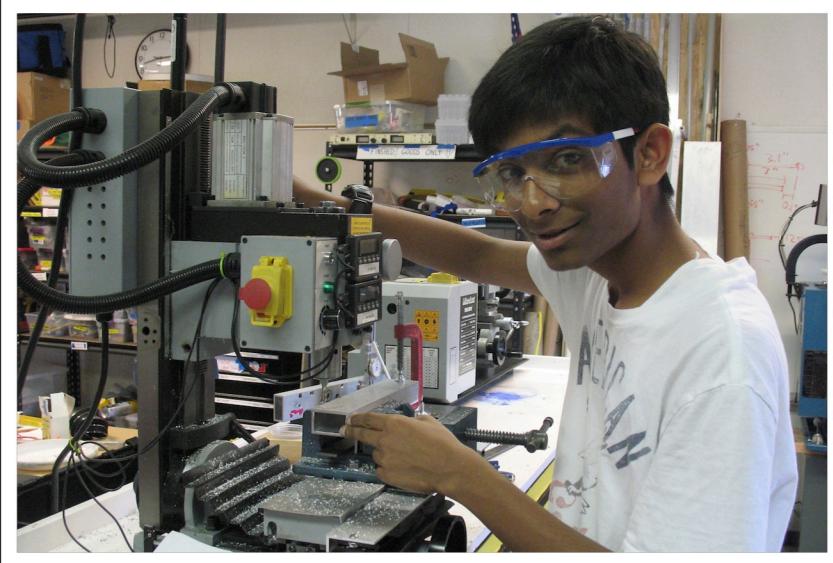




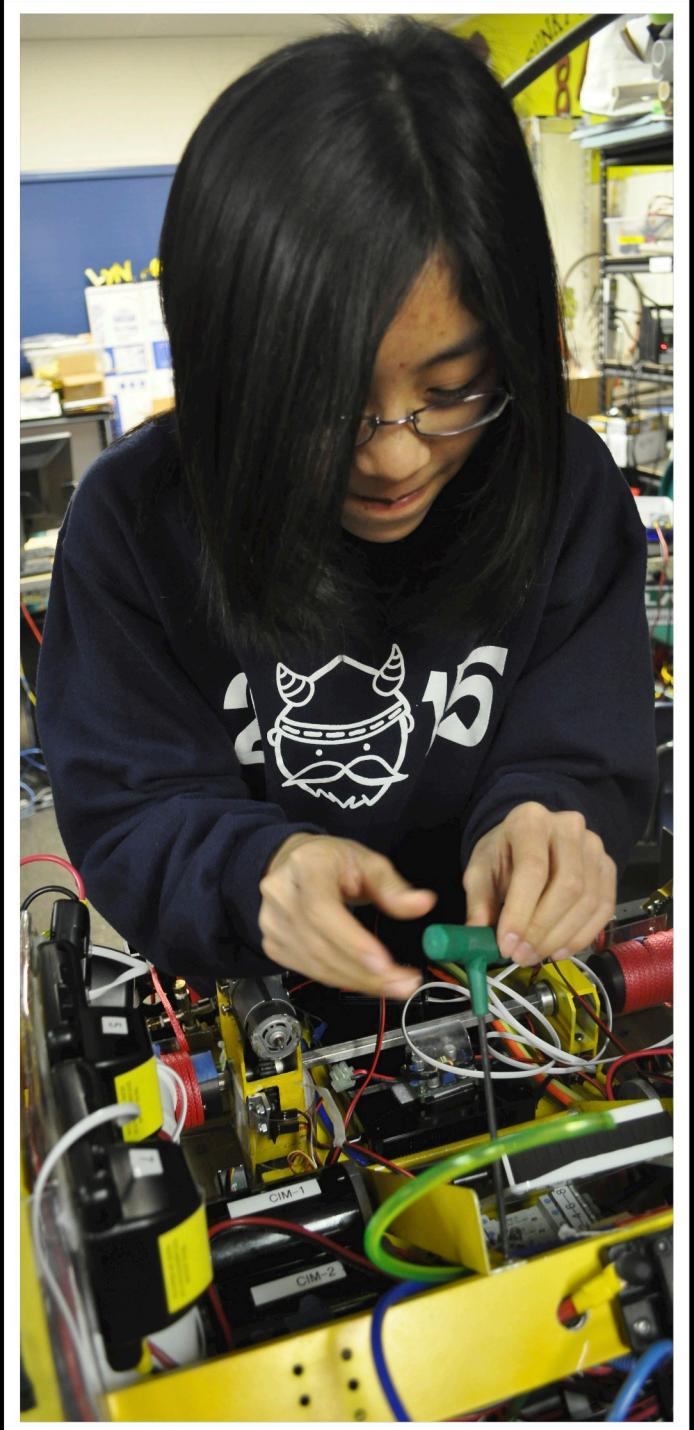
"Let there be light"
Johnny "The Welder" Gambini

Mr. Harrison and Miles
finish assembly on our
frisbee collector.

Nikunj finishes
a part on our
mini-mill.



"I got it!"
Megan tightens a difficult to
reach screw on the robot.



Brent wires the
robot without
even looking...

That explains
a lot.





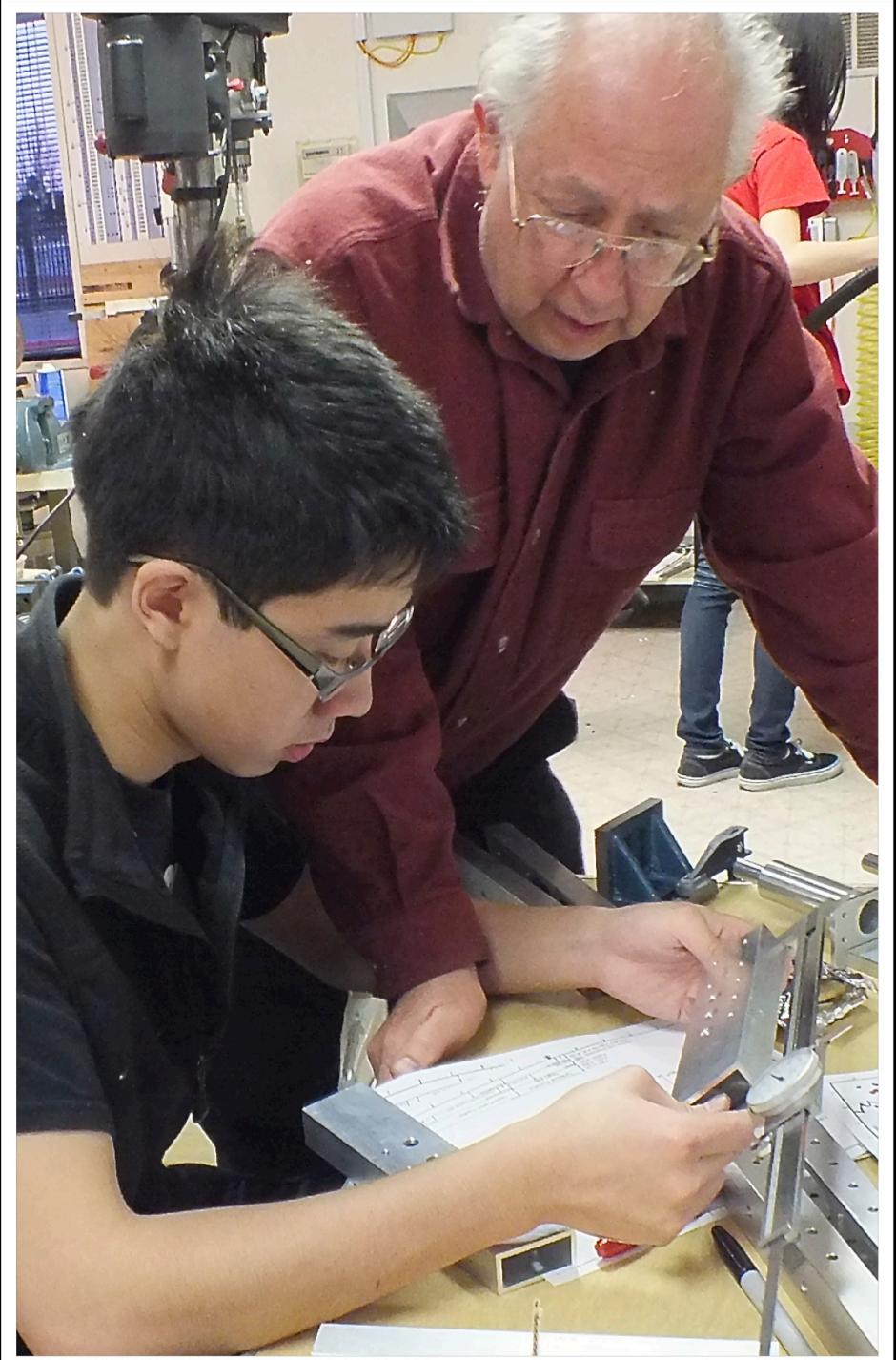
Miles and Anurag tweak our robot while practicing on the field at the NASA-Ames Research Center, the impressive work site of the Cheesy Poofs, 254, and the Space Cookies, 1868.

Mr. Lowd and Eric inspect a part of the robot frame before welding.

Akshat examines his shooter prototype.



"I have the power"
Eva presses a pinion gear onto a motor.

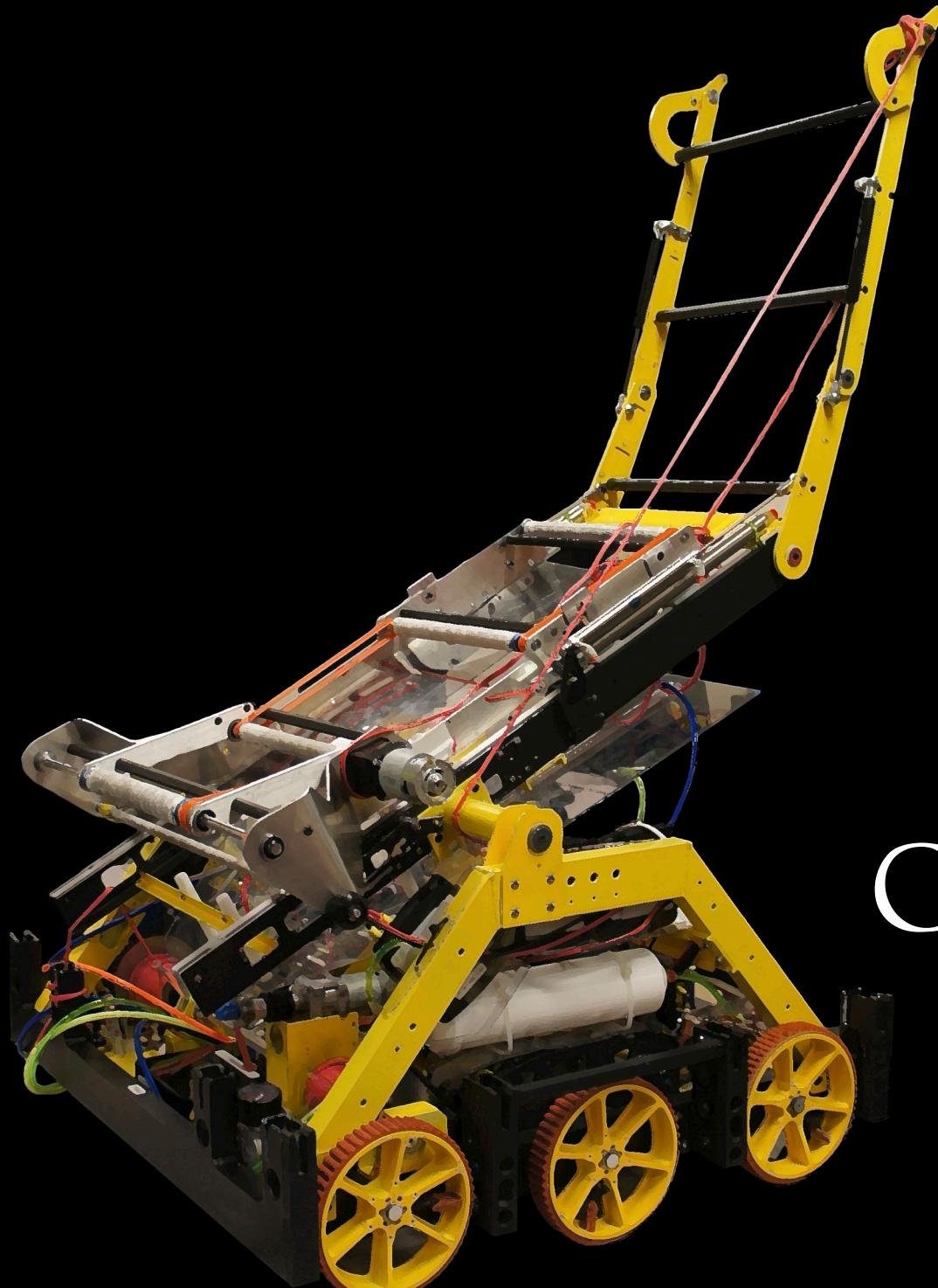




The Funky Monkeys just prior to "bagging and tagging"
our robot "Ultimate Funky Object" on ship date.

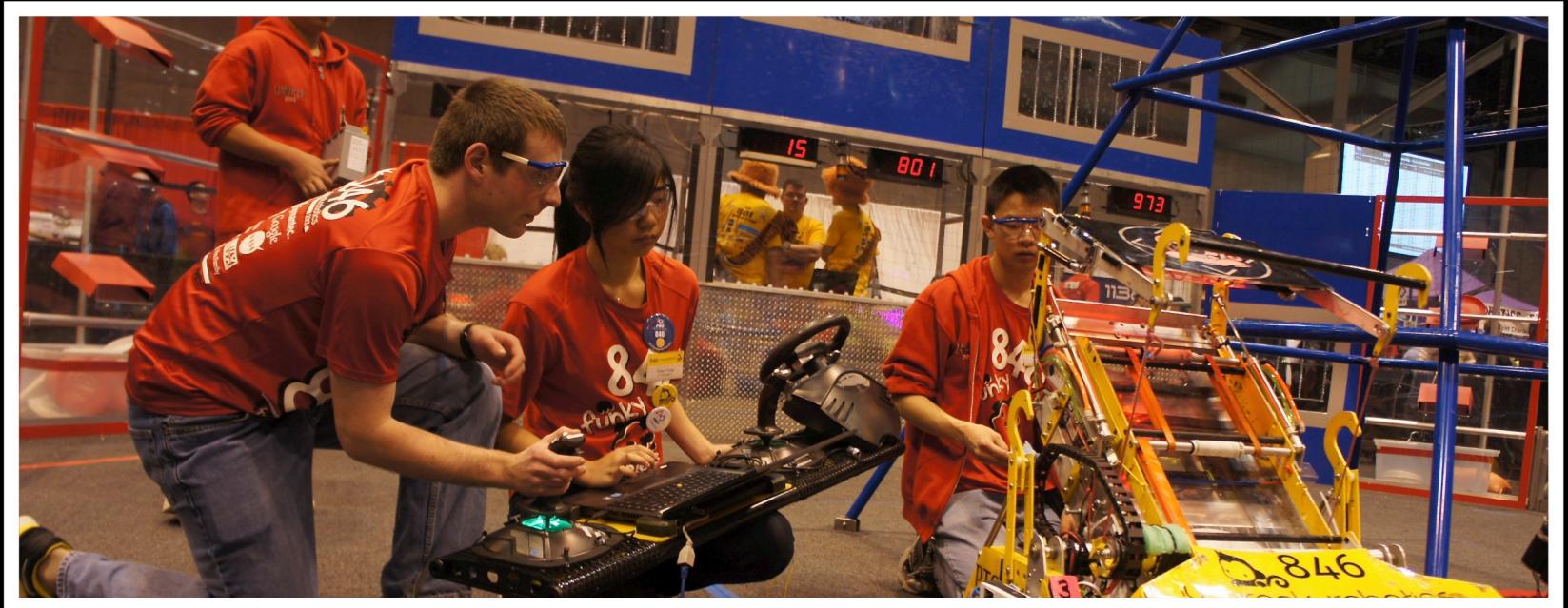
T-minus 1 hour; 11:00 PM, February 19, 2013





COMPETITIONS

Setting up for our next practice match.



Miles nurses his collector back to health.



Mr. Xie and Anurag repair a bumper standoff whose welded joint failed after a hard impact.



Eva, Varun, and Rahul excitedly cheer the team on!



"Who's Next?" Owen says as he looks through his scouting data.



Tony and Raphael, like all good monkeys, pick out the bugs and eat them for lunch.

The drive team honing their skills on the practice field.



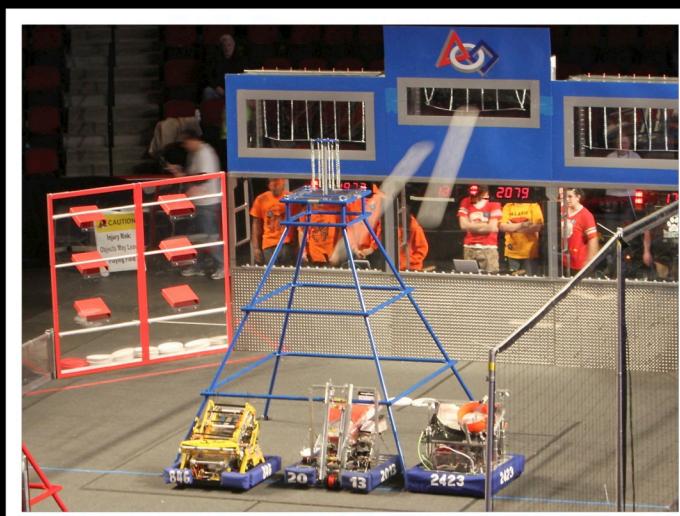
The drive team monkeys are excited for our first Finals appearance!



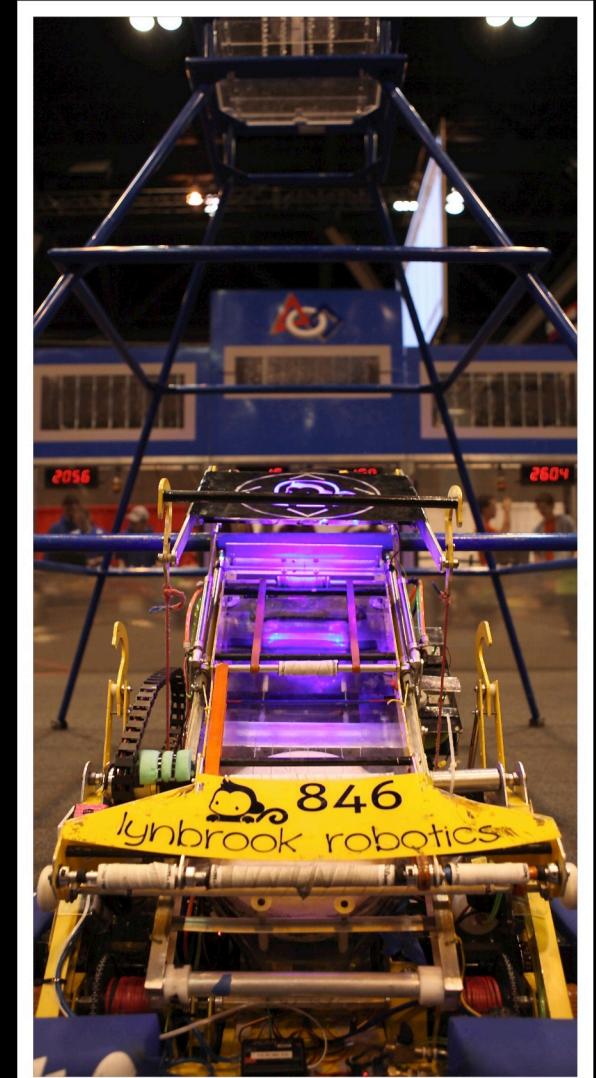
OUR 2013 ROBOT

ULTIMATE FUNKY OBJECT

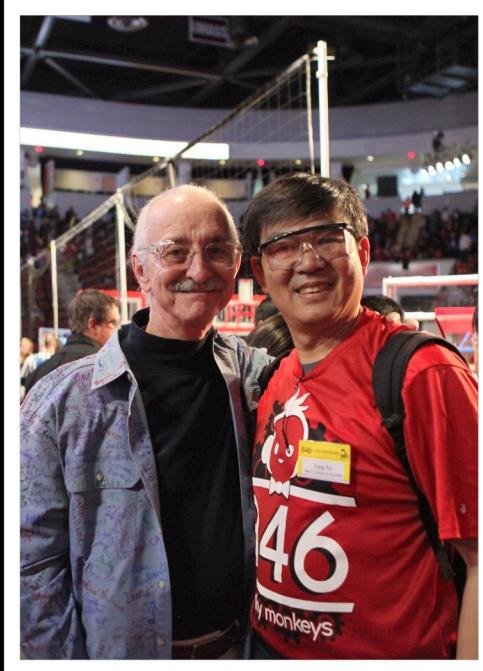
The UFO lifts off!



Ready... Aim... Fire!



Locked and Loaded for the next match.



Mr. Xie and Woodie Flowers are excited after a great day on the competition field.



Dean Kamen visiting our pit at Boston.

Diane and Anurag talk to the judges at Boston.



REGIONAL FINALIST

Alliance Captain

Boston Regional

ENGINEERING
INSPIRATION AWARD

Boston Regional

IMAGERY AWARD

honoring Jack Kamen

Silicon Valley Regional



AWARDS



BOSTON REGIONAL 2013 FINALIST ALLIANCE

FIRST Team 846, Funky Monkeys

FIRST Team 3173, IgKnights

FIRST Team 88, TJ²

The Engineering Inspiration noted two of our major outreach projects – *BecauseRobots.org* and “Monkey Business”, our team newsletter.



Michelle Chang is the producer and editor-in-chief of our newsletter, “Monkey Business” is published three times annually.



Matt Wang edits our website
BecauseRobots.org

ENGINEERING INSPIRATION AWARD

*They provide inspiration for the next generation
Designers in CAD and engineering automation.*

*By launching Because Robots on social media,
we now have a why robots? encyclopedia.*

*Demonstrating tech at a museum and an air show
They help awareness of robotics grow.*

*They more than tripled the number of junior-league teams
and trained hundreds of students in finding their dreams*

*By publishing a quarterly newsletter,
every stakeholder knows them so much better.*

*With these multiple investments in FIRST, they sure are spunky.
That's why we so love the Funky Monkeys.*



Brian leads the team to pick up the
Engineering Inspiration Award at the Boston Regional.

MS. GAIL DAVIDSON

Ms. Davidson, the principal of Lynbrook High School, is by far one of the most dedicated people with whom I have had the pleasure to meet and work with. Ms. Davidson's devotion to enhance the learning environment in our school is unparalleled; she is passionate in her support of STEM based programs like our robotics team. After ten nomadic build seasons, building our robots in five students' garages, the team has finally found a permanent home on the Lynbrook High School campus thanks to Ms. Davidson's support. Her work with the team has affected hundreds of students, and will continue to change the lives of new Lynbrook generations to come. Even after her retirement, Ms. Davidson will always have a place within the Funky Monkeys and Lynbrook High School.

-Michael Lin, Public Relations Officer 2013





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