

"ROLLS ARE  
ON HOLD"

SWEEPSTAKES

2018



98 YEARS OF BUGGY

# CARNIVAL SCHEDULE

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### FRIDAY, APRIL 20

#### **Sweepstakes Preliminary Races**

Schenley Park (course on Tech, Frew & Schenley)  
8 a.m. - 12 p.m.

#### **The History of Buggy: Showcasing 1993 & 1968**

Danforth Conference Room, CUC (2nd Floor)  
1:30 - 2:30 p.m.

#### **Buggy Recap & Finals Auction**

Hough’s Taproom, 563 Greenfield Avenue  
7 - 10 p.m.

### SATURDAY, APRIL 21

#### **Sweepstakes Final Races**

Schenley Park (course on Tech, Frew & Schenley)  
9 a.m. - 12 p.m.

#### **Stever Open House (Buggy & Sweepstakes Installation)**

Stever House, 1030 Morewood Avenue  
1 - 2 p.m.

#### **Spring Carnival & Sweepstakes Award Ceremony**

Midway Stage  
[Rain location: McConomy Auditorium, CUC (1st Floor)]  
4 p.m.



# CARNIVAL SCHEDULE

WEDNESDAY, APRIL 18

**WRCT Sweepstakes 2018 Preview**

88.3 FM

8 p.m.

THURSDAY, APRIL 19

**Buggy Showcase**

Wiegand Gym, CUC (1st Floor)

12-2 p.m.

**Midway Opening Ceremony**

Diagonal Sidwalk between CUC and Fence

3-3:30 p.m.

**Buggy Alumni Association (BAA) Welcome Event**

Fuel & Fuddle, 212 Oakland Avenue

7:30 p.m.



**Myths  
&  
Legends**

SPRING CARNIVAL 2018  
CARNEGIE MELLON UNIVERSITY

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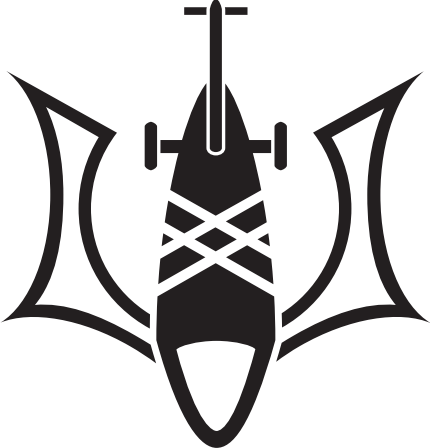


# HEATS

For all things buggy and raceday, check out:

**Live Heat Schedule** <https://tinyurl.com/buggyrd18>  
**Raceday Coverage** <https://cmubuggy.org/raceday>

For complete pusher rosters, be sure to tune in to the live broadcast!



**CARNEGIE MELLON UNIVERSITY  
SWEEPSTAKES 2018**

# SPECIAL THANKS

Sweepstakes would like to thank the following people for helping make Raceday 2017 a success:

## Alumni Relations

Laurel Bosshart Furlow  
Tim Leonard

## Anne Witchner

## Buggy Alumni Association

Ben Matzke  
Lou Conley  
Tom Wood

## Head Judge

Linna D. Griffin

## Buggy Showcase Judges

Professor Rebecca Taylor  
Ed Wojciechowski  
Doug Zhong  
TJ Watson

## Carnegie Mellon EMS

## Carnegie Mellon Police

## City of Pittsburgh EMS

## City of Pittsburgh Police

## cmuTV

## WRCT

## W3VC

## Commentators

Will Weiner  
Bryan Arsham  
Aubrey Higginson  
Michael Darcy  
Andy Bordick  
Jack Kaplan  
Mark Estes

## Environment Health & Safety

Tom Plietz  
Dean Thomas  
Stephen Lane

## Joe's Hot Dog House

## Kaycee Palko

## Phoenix Sport Technology

## Safeway Scaffolding

## Viewpoint Production

## Spring Carnival Committee

## SLICE

## Taylor Rental

## Michelle Mirabella

## Jordan Kunz

# BUGGY SPONSORS



UBER

ATG

WHAT IS  
BUGGY?





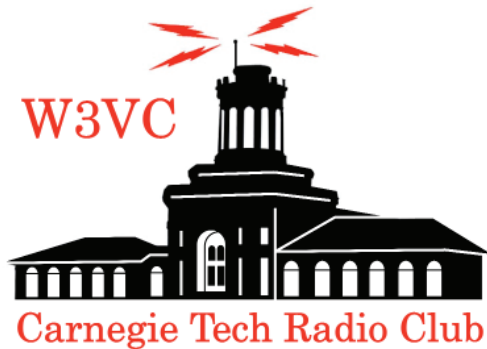
cmuTV is a student-run television station of Carnegie Mellon University. They bring all of the video footage of Sweepstakes including live streaming, raceday videos, team profiles, and behind-the-scenes footage of Buggy. Thanks to the team for all of their help and support!



A non-commercial freeform radio station hosted in the basement of Carnegie Mellon's University Center, WRCT broadcasts interviews as well as Raceday coverage during the buggy races. Many thanks to the team for making that possible.



Carnegie Mellon University EMS provides 24/7 emergency medical response to the Carnegie Mellon campus community and surrounding areas, as well as medical standby support to CMU organizations as needed for major events (like buggy!). Licensed by the Pennsylvania Department of Health as a Quick Response Service, CMU EMS provides a Basic Life Support level of care to over 600 calls per year. CMU EMS has been in service since 1984. EMS is proud to be in the chute standing by bright and early every rolls day! Remember to call CMUEMS at 412.268.2323 in case of emergency. We hope everyone has a safe Carnival 2018!



W3VC is the invaluable team of radio experts that keep rolls running smoothly throughout the year. From the top of hill 2 to the end of the chute, this team of hardworking individuals makes sure the course is clear and reports any problems to Sweepstakes. When a team crashes, they are the first to let the top of the hill know what happened and what needs to happen. They are as crucial as the Sweepstakes Committee and we really couldn't do it without them. Thank you guys.

# HISTORY OF BUGGY

At 9:30 AM on May 14, 1920, with what a witness called a conglomeration of rain barrels, orange crates, and ash cans with wheels, the iconic sport of Sweepstakes, more commonly known as Buggy, began its 98-year history. A dozen box-like push-mobiles with male drivers inside lined up on the street that used to run between Hunt Library and Baker Hall. Each buggy was propelled towards Schenley Park by a pusher who rode on the back of the buggy for the downhill portion of the course. At the bottom of the hill was a pit stop, where the pusher switched places with the driver and the mechanic had to swap the rear two wheels to demonstrate the buggy's mechanical prowess.

In 1921 the founders of Buggy eliminated the pit stop. Instead, a design competition was created to judge the mechanical features of the buggies. When it became mandatory in 1922, buggies like Delta Upsilon's enormous fish became obsolete and mechanical perfection became the new goal. Teams reached unprecedented speeds when two extra pushers were added the same year, and from 1925 onward, the race was run in heats to reduce collisions. In 1926 a fifth pusher was added to each team, and in 1928, Frew Street was extended, making the Buggy course what it is today.

# BUGGY DESIGNS OVER THE YEARS

As the years progressed, buggies became lighter and more aerodynamic. Buggies began to follow innovations in materials science and mechanical engineering closely as early as the 1930's.

After World War II, aluminum remained the building material of choice but required sophisticated production techniques. Fiberglass composites became the construction standard through the early 80's due to their ease of use, and carbon fiber crept into the buggies in the late 80's starting with Spirit's buggy Quantum Leap. Teams have worked at perfecting their composite technology since then, adding core materials and reducing weight. These days, a well-made carbon fiber shell can weigh less than 9 pounds.

## HISTORY OF WHEELS

A light buggy, however, is nothing without good wheels. Prior to World War II, most wheels were pneumatics. Starting in 1947, Soap Box Derby wheels were used, until the early 80's when the hubs changed from steel to plastic and were deemed unsafe for Buggy. Many teams adopted off-the-shelf solutions like the Panaracer wheel chair wheels and Xooter scooter wheels. Other teams made custom wheels out of rubber or polyurethane and saw improvement over stock wheels.

Around 2010, Zero Error Racing began offering over-the-counter, high-quality polyurethane wheels. These wheels have become the standard today for any team looking for fast wheels without having to cast their own.



**BUGGYALUMNI**  
ASSOCIATION

**“Congratulations, Seniors!  
You’re alumni now.”**

You know you’re going to miss buggy most of all. Here’s how you can stay involved! Register before graduation (May 20) to get 1 year of premium membership benefits for free:

<http://cmubuggy.org/seniors>

### **Member Benefits**

Supporting Members and New Alumni get non-public in-depth updates on buggy events to keep you in the loop and an invite to the annual raceday reception.

### **After your first year**

A contribution of any size makes you a supporter and helps us pursue our 5-point mission:

1. Preserve and make accessible the history of the sport
2. Provide a channel by which alumni can remain connected to and support the sport
3. Support and improve undergraduate participation
4. Improve relations and raise interest in the greater Pittsburgh community
5. Unite alumni across organizations

**Be sure to visit <http://cmubuggy.org> for access to:**

- Buggy photos
- Sweepstakes history
- The latest in buggy news
- A forum where you can talk buggy with your fellow alumni



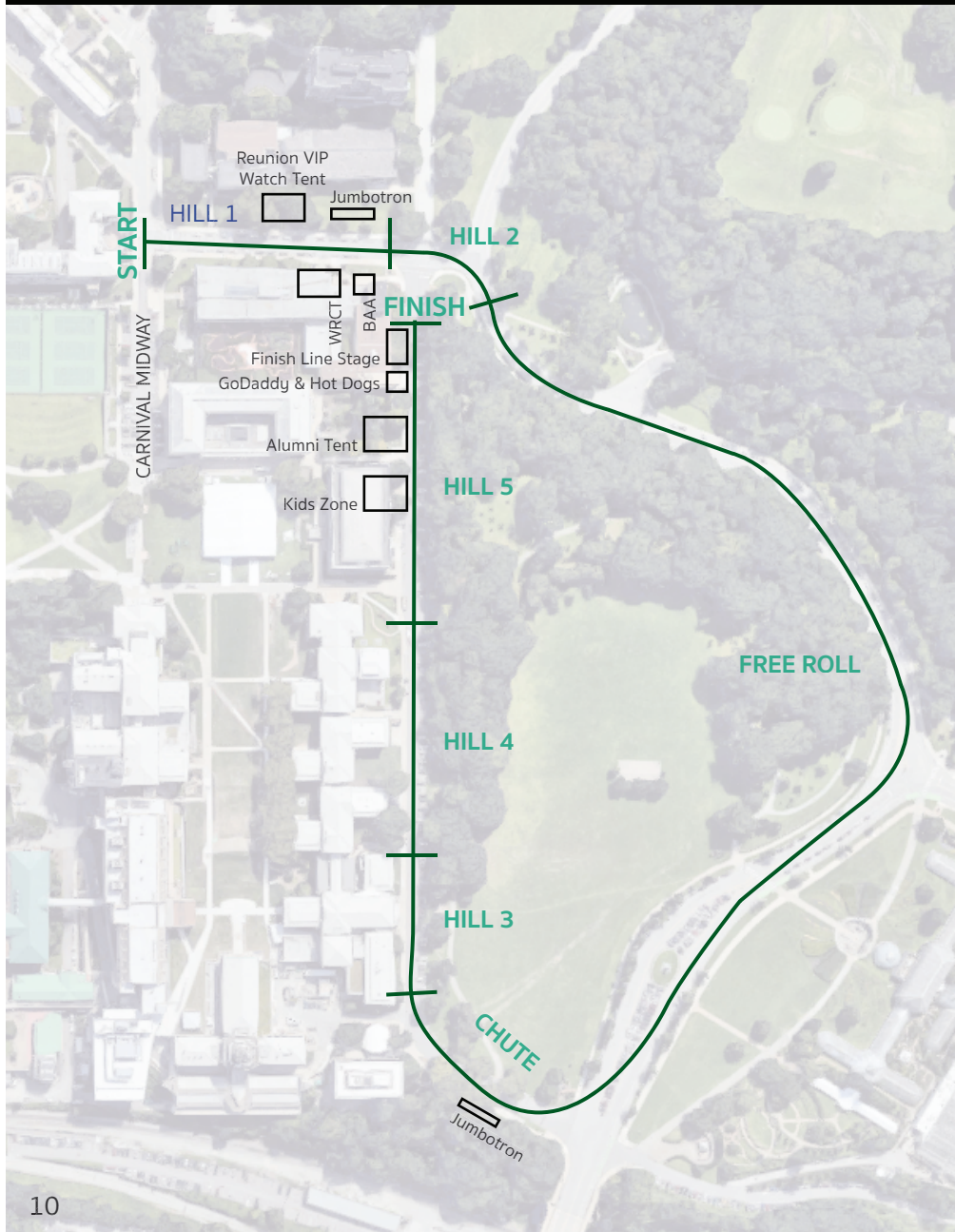
# SUPPORT ORGANIZATIONS

## TODAY

Better aerodynamics, closer race lines, faster pushers, swankier racing stripes... what will it take to break the two minute barrier? Even if it is broken, teams will never stop innovating. Having a fast enough buggy to roll past hill 3 might just be the next milestone, who knows? Pittsburgh weather has certainly lived up to its reputation this year (snow in April, anyone?), but the teams have persevered. New buggies have rolled in, and teams have been pushing all year round, so you can expect exciting heats this year!



# COURSE MAP



# BUGGY

## Drivers

Abha Agrawal, Tiffany Yu

## Buggies

Transistor (2015)

NAND (2018)

## Mechanical

Eric Barrett, Howard Coffin, Antonio Garcia-Smith, Danielle Quan, Sarathi Sarkar, Myles Sherman, Adam Zeloof

## Software

Vivaan Bahl, Shubhangi Bhotika, Haoran Fei, Abhinav Girish, Mayank Jain, Pranav Kumar, Kimberly Lo, Darshan Patil, Brad Powell, Varun Raghav Ramesh, Vivek Sridhar, Megan Ung

## Electrical

Sean Buckley, Abha Agrawal, Pallavi Bhavne, Jonathan Duffy, Josh Durham, Carlos Gonzalez, Adam Quinn, Yuyi Shen, Dylan Tom, Tiffany Yu

## Special Thanks

Thank you to our incredible alumni and our sponsors Build18, Epic Metals, Hillcrest Labs, Aptiv, and NVIDIA for their generous support!





# ROBOCLUB



RoboClub Buggy is here for another year of driverless rolling! After another year of hard work and late nights, we're excited to present our new robotic buggy NAND alongside Transistor, and we look forward to seeing what the future has in store for both of them!

**Chairman:** Danielle Quan  
**Mechanical System Lead:** Eric Barrett  
**Software System Lead:** Vivaan Bahl  
**Electical System Lead:** Sean Buckley

# BUGGY TERMS

## Buggy

1. A vehicle built, operated, and pushed by CMU students for the races held during Carnival.
2. Commonly held name of the Sweepstakes race and the sport in general.

## Capability Test

Also known as 'capes', a braking test where buggies must stop within a set distance at 15 mph.

## Chute

The tight right-hand turn (halfway through the course) from Schenley Dr. to Frew St.

## Drop Test

A test of each buggy's braking system; performed before every day of rolls and after each race.

## Freeroll

The mostly downhill portion of the course, during which the buggy is freely rolling and the driver is completely in control.

## Heat

A time slot on Race Day where up to three teams race against each other at the same time.

## Hills

Term for the uphill portions of the course, divided into five sections, each with an individual pusher.

## Pushbar Rule

The Hill 5 pusher must have a hand on the buggy as it crosses the finish line.

## Rollout

Distance the buggy travels up Frew St. after the chute before the Hill 3 pusher catches up.

## Rolls

Weekend practices held from 7am-9am (weather permitting) throughout the year leading up to Race Day.

## Spinout

Act of losing traction on the course, resulting in the buggy spinning.

# THE TEAM

Every team has the following members:

## Driver

Typically a short, lightweight person courageous enough to pilot the buggy around the course.

## Mechanic

Builds, maintains, and manages their team's buggies year-round, the off-the-track heroes.

## Pusher

The athletic force behind every buggy on the course. Five are required for each buggy on race day.

## Flagger

Holds landmarks for their team's drivers to help them navigate key turns. Sometimes it's hard for drivers to see so low to the ground.

## Catcher

Stops the buggy after it crosses the finish line. Usually also a mechanic.

## Follow Car

A vehicle that follows the buggies, for immediate response in case of a crash. During heats, contains judges and crew.

## Driver

Aileen Zhai

## Buggies

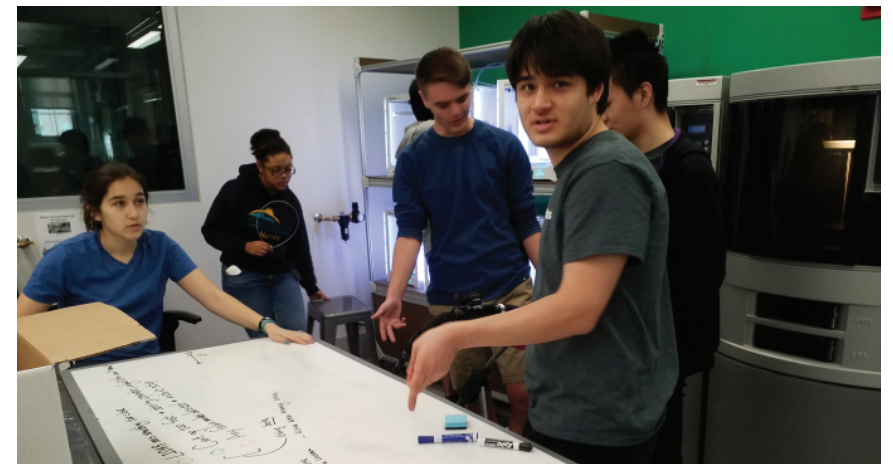
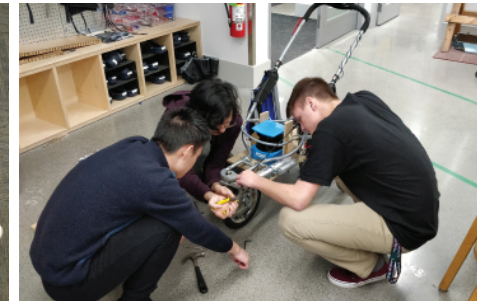
BabyBuggy (2018)

## Mechanics

Frank Xu, Gavin, Chris Perry, Oshadha Gunasekara, Benjamin Warwick, Blair Chen, Shane Guan, Tabatha Pina, Aileen Zhai

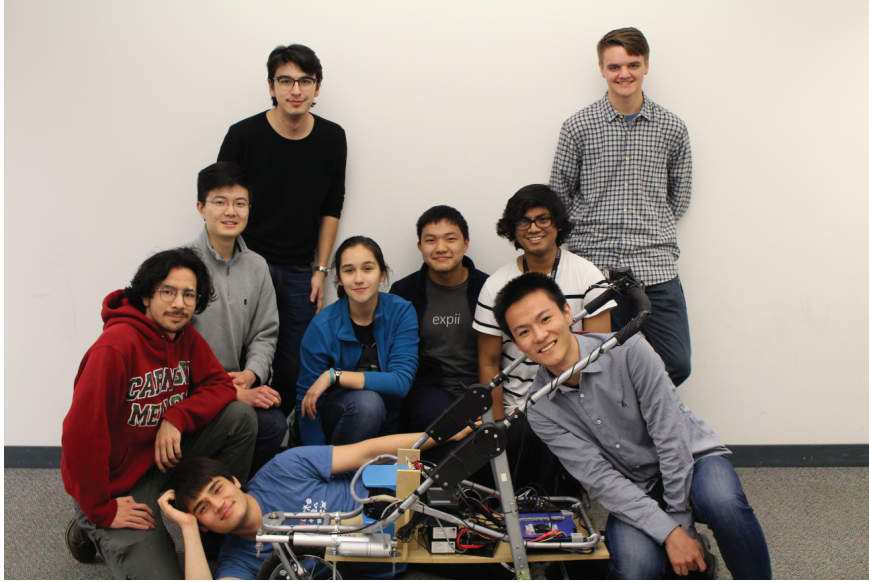
## Special Thanks

Amazon Robotics, Delphi





# ATLAS



Atlas is an interdisciplinary team whose aim is to develop an autonomous buggy that can steer itself through the entirety of the buggy course and compete in the rising robotic buggy competition.

**Chairman:** Oshadha Gunasekara  
**Assistant Chairman:** Tabatha Pina  
**Software Lead:** Blair Chen  
**Hardware Lead:** Frank Xu



# MEN'S TIMES

Year	Team	Time	Year	Team	Time
2017	SDC	02:02.16	1988	Spirit	02:06.20
2016	SDC	02:03.10	1987	Spirit	02:11.30
2015	SDC	02:12.40	1986	PiKA	02:08.70
2014	SDC	02:04.50	1985	SigNu	02:09.10
2013	SDC	02:04.99	1984	PiKA	02:09.50
2012	SDC	02:05.80	1983	PiKA B	02:09.00
2011	Fringe	02:05.10	1982	SigNu	02:11.50
2010	Fringe	02:07.50	1981	CIA	02:10.50
2009	SDC	02:03.30	1980	PiKA	02:16.40
2008	PiKA	02:04.30	1979	Beta	02:18.40
2007	PiKA	02:07.40	1978	Beta	02:23.40
2006	PiKA	02:07.30	1977	PiKA	02:17.80
2005	PiKA	02:07.90	1976	PiKA	02:23.30
2004	PiKA B	02:11.70	1975	PiKA	02:19.30
2003	PiKA	02:10.10	1974	SigNu	02:21.40
2002	PiKA	02:09.20	1973	PhiKap	02:25.40
2001	Fringe	02:09.10	1972	PhiKap	02:24.00
2000	PiKA	02:07.40	1971	PiKA	02:28.50
1999	PiKA	02:09.70	1970	PiKA	02:28.50
1998	Spirit	02:09.50	1969	Beta	02:29.60
1997	Spirit	02:11.90	1968	PiKA	02:20.90
1996	PiKA	02:08.10	1967	PiKA	02:24.80
1995	PiKA	02:09.98	1966	Beta	02:27.80
1994	PiKA	02:09.20	1965	Beta	02:28.70
1993	Spirit	02:10.40	1964	Beta	02:31.50
1992	Spirit	02:07.40	1963	PiKA	02:34.00
1991	Spirit	02:10.60	1962	ATO	02:27.50
1990	PiKA	02:07.10	1961	ATO	02:27.20
1989	Spirit	02:06.60	1960	ATO	02:34.50

## Drivers

Rebecca Kang, Diamond Moody, Beichen Liu, Lillie Widmayer, Sarah Shy

## Buggies

Inviscid  
Kingpin II  
Mapambazuko/Zuke  
Menes  
Seraph

## Mechanics

Adam Assaad, Aleah Haygood, Amy Zhao, Ashley Burbano, Carlos Taveras, Christine Amin, Chris Fulton, David Inyangson, Diaj Toussaint, Diamond Moody, Frank Andujar, Funmbi Jaiyeola, Giancarlo Seixas, Isabelle Ahn, Justin Mitchell, Lane Darby, Lavonca Davis, Mohamed Elhag, Noni Tinglin-Jarrett, Quinton Thomas, Samantha Ealy, Spencer Yu, Thomas Anderson, Tomi Akin-Sopido

## Flaggers/Timers

Adrian Johnson, Arnold Ogbogu, Sandra Vordzorgbe

## Special Thanks

Thomas Felmley, Robert Bowie, Matt Wagner, Evan Moss, Britt Robertson, Amiel Bent, CMARC/CSDI





# SPIRIT

# MEN'S TIMES



SPIRIT Racing Systems, also known as “SRS” or “SPIRIT Buggy,” is a group of multicultural students at Carnegie Mellon University who strive to bring inclusivity, pride, and excellence to the sport of buggy.

**Chairmen:** Matthew Swain and Khalil Williams  
**Assistant Chairman and Head Flagger:** Adrian Johnson  
**Head Mechanics:** Chris Fulton and Amy Zhao  
**Head Drivers:** Rebecca Kang and Diamond Moody  
**Push Captain:** Akua Oppong  
**Shop Manager:** Frank Andujar  
**Senior Technical Advisor:** Josie Lacoie

Year	Team	Time	Year	Team	Time
1959	PiKA	02:29.70	1926	PiKA	03:18.30
1958	ATO	02:28.40	1925	KapSig	
1957	ATO	02:25.00	1924	KapSig	
1956	ATO	02:25.00	1923	KapSig	
1955	ATO	02:26.00	1922	SAE	04:30.00
1954	ATO	02:28.10	1921	ISD	04:38.00
1953	ATO	02:30.60			
1952	DTD	02:36.00			
1951	DTD	02:41.60			
1950	DTD	02:41.80			
1949	DTD	02:42.50			
1948	DTD	02:48.00			
1947	DU				
1946	DTD	02:49.00			
1941	KapSig	02:55.00			
1940	KapSig	02:53.00			
1939	KapSig	02:44.00			
1938	KapSig	02:43.00			
1937	KapSig	03:00.00			
1936	KapSig	02:46.80			
1935	Beta	02:47.20			
1934	KapSig	02:49.70			
1933	Beta	02:48.50			
1932	Beta	02:54.80			
1931	DTD	02:59.00			
1930	Beta	02:57.50			
1929	PhiKap	03:05.60			
1928	KapSig	03:04.40			
1927	KapSig	03:15.80			

# WOMEN'S TIMES

Year	Team	Time	Year	Team	Time
2017	SDC	02:23.27	1988	PiKA	02:40.00
2016	CIA	02:31.10	1987	Spirit	02:37.30
2015	CIA	02:35.60	1986	Spirit	02:38.80
2014	SDC	02:33.50	1985	CIA	02:45.50
2013	SDC	02:32.60	1984	PiKA	02:48.60
2012	SDC	02:30.90	1983	CIA	02:46.50
2011	SDC	02:34.96	1982	CIA	02:49.30
2010	Fringe	02:40.60	1981	SDC	03:04.10
2009	SDC	02:25.60	1980	CIA	03:06.30
2008	SDC	02:28.80	1979	SDC	03:11.00
2007	SDC	02:31.00			
2006	PiKA	02:38.50			
2005	Fringe	02:37.90			
2004	PiKA	02:29.80			
2003	Fringe	02:44.80			
2002	PiKA	02:30.60			
2001	Fringe	02:34.70			
2000	SDC	02:35.80			
1999	PiKA	02:45.90			
1998	PiKA	02:43.30			
1997	Spirit	02:37.80			
1996	Spirit	02:35.90			
1995	Spirit	02:33.00			
1994	PiKA	02:42.80			
1993	PiKA	02:38.70			
1992	Spirit	02:33.50			
1991	PiKA	02:37.30			
1990	PiKA	02:36.30			
1989	Spirit	02:36.99			

## Driver

Alana Mittleman

## Buggy

Bungarus Krait

## Pushers

Parker Valdez, Alex Goberna, Manu Navjeevan, Patrick Jennings, Andrew Schreffler, Steve Schollmeyer, Sam Adams

## Flaggers

Charlie Meng, Nate Chevan, John Paul Harriman, Jeremy Leung

## Mechanics

Kai Lung, Tian Owarang, Bruce Liu, Tom An, Steven Feng, Saransh Agrawal, Chris Feng, George Kim

## Follow Car

Shridhar Singh, Andrei Marcelescu, Anubhav Jaiswal

## Sweepers

Ajay Benno, Chaitanya Lokireddy



# SIGNU

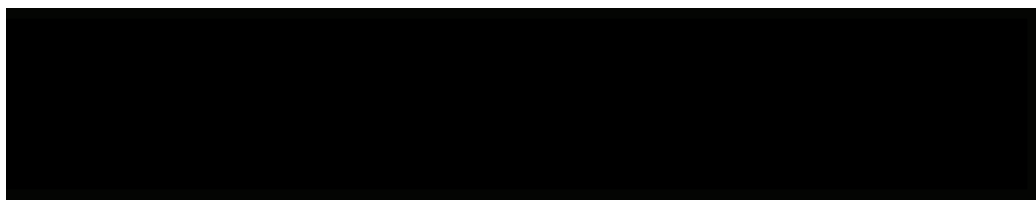


We'll show up to rolls next year.

# PAST CHAIRMEN

2017	Enosh Shachar	1987	Shawn Stufft
2016	Edward Cho	1986	Gretchen Von Grossmann
2015	Elon Bauer	1985	Luan Denny
2014	Lars Wander	1984	Nancy Burns
2013	Josh Hixson	1983	Sandy Ruscin
2012	Anthony Pacella	1982	Elaine Andrysick
2011	Chris Shellhamer	1981	May Slava
2010	Jessica Thurston	1980	Janet Danek
2009	Andrew Hundt	1979	Marianne Dwyer
2008	Mizel Djukic	1978	Gerd Beckmann
2007	Mike Rem	1977	Mark Gardner
2006	Arnold Oh	1976	Joan Bothwell
2005	Sara Player	1975	Dave Kanner
2004	Janice Golenbock	1974	Dary Turner
2003	Janice Golenbock	1973	Don Dietrich
2002	Scott Wabnitz	1972	Jeff LaRochelle
2001	Scott Wabnitz	1971	Jeff LaRochelle
2000	Debby Keller	1970	Harold Herre
1999	Debby Keller	1969	Robert Gebbia
1998	Dani Barnard	1968	Jim Wentz
1997	Fiona Bedford	1967	Mike Smolens
1996	Greg Dupier	1966	Paul Magnuson
1995	Pete Harllee	1965	Roger Powell
1994	Demian Johnston		
1993	Alexis dePlanque		
1992	Alexis dePlanque		
1991	Ray Fratto		
1990	Erica Levy		
1989	Chris Hansen		
1988	Louis (Gino) Cosentino		





**Drivers**

Nazli Uzgur, Sophie Halpern, Haiwen Liu, Beccy Zhang

**Buggies**

Barracuda (2009)

Kraken (2013)

Hydra (2016)

Beyonce (2017)

**Mechanics**

Mitchell Reik, Jake Muskovitz, James Gaulteri

**Flaggers/Timers**

Will Crouch

**Special Thanks**

SDC, Anthony Corletti





# SIGEP



Booth is a competitive engineering, art, and design competition in which the end result is a two-story up-to-code temporary house-like structure. The design is based on a theme, and members of the Pittsburgh community walk through it - our users. The point of Booth simply is to make a novel experience that is enjoyable for a bunch of people you've never met. This year, members of Sigep are working on a Legends of Zelda themed booth. We hope that you will enjoy it!

**Chairman:** Felix Liu

**Push Captains:** Shota Furuhata and Morgan Stanley

# THE TALES



# A DRIVER'S TALE

by Annie Black (SDC)

## Drivers

Annie Black, Kyoko Inagawa, Amanda Ventura Molina, Elaine Ouyang

## Buggies

Malice (2009)  
Avarice (2010)  
Vice (2013)  
Inferno (2017)

## Mechanics

Cody Yang, Joyce Chen, Kevin Devincentis, Aidan Peck, Boyao Yu, Brian Lee, David Xie, Evann Wu, George Zhu, Gracia Genero, Isabelle Chevallier, Jacob Gruza, Jacob Rushkoff, Jason Liu, Molly Jane Browning, Noah Thompson, Nicole Chu, Alex Noring, Rebecca Rovins, Ray Galeza, Ruijie Fu, Scott Rothbaum, Sean Birke, Stephanie Zhang, Ted Kang, Vincent Liu

## Special Thanks

Mike Darcy, Jeremy, Wade, Drevin, Michelle, Melisa, Sunny & Laura, DF & Kathy, Jordan, Zoe, The Perfect Man, Alex Long, Hat Jon, Mr. Price, Julian, Kyle, Connie, Chris Goode, Omer, Eddy, Dan Francis, Jing, Brian, Derek, Muñoz, Alex Y, Gessner, Mira, Keene, Jana & Kris Borer, Chris Stengel, the Vandermarks; all alumni; Bryan Koval, Kanisha Vaughn, and SDC GenBody; Sweepstakes; and our friends, fans, and supporters





# SDC



In SDC Buggy, we're proud to represent our dorm student community through the hard work, friendships, and fun we have together. We're always striving to improve and pay attention to every detail. We foster an innovative spirit while respecting and building upon the great contributions of our alumni before us. As our fellow insomniac would say, "May I never be complete. May I never be content. May I never be perfect."

**Chairman:** Joyce Chen

**Head Mechanic:** Isabelle Chevallier

**Head Driver:** Annie Black

**Men's Push Captain:** Boyao Yu

**Women's Push Captains:** Mary Garrett and Shannon Finnerty

Your mechanics rush you out to the starting line as the countdown blares and all the people around you are screaming, but you can't guess who they are because it's just a sea of feet. Countdown blaring, stomach churning, you tighten your grip and wait.

Now on hill 1 it's **finally** starting, except you can see the buggy in the lane next to you and you need to get ahead but there's no way you can help your pusher except drive straight.

But after the shove you've left them all behind. The sound of your buggy on the road feels like silence compared to the din of the crowd. The smell of the ginkgo that's stuck to the pavement fills your buggy and you know it's only you, your road, and the squirrels that had better not come near you...

And before you know it you're nearing the chute.

Your heart crashes against your chest—the sea of feet are back, most of them cheering for you to wipe out, and for a moment you have a glimpse of yourself on the big screen, your team name pasted across the bottom and, knowing this moment represents all the work your team has done you take a breath, head towards the flag...and make your turn.

Shrieking victory on hill 3, you've made it through! The hard part is over, the haybales have passed, and now it's all up to your pushers. The road ahead stretches towards the finish line, interrupted by what looks like pools of water, but really it's the bright noon sunlight bouncing off your course, and you've just never rolled at midday to witness this mirage.

Crossing the finish line, the roaring crowd crashes back into your awareness, and the announcer is fired up but you can't make out if his words spell victory or doom and there's no way for you to find out because you're still stuck in a buggy. But then your team is there and they're bellowing encouragements, and if only your heart would quit going double speed you could be patient just a little while longer.

Regardless of how the race goes, the experience is defined by our teammates, who are there beside us on every hill, at every practice, and throughout our college experiences. Not every race can be record-setting, but every race holds the potential for greatness. So...SDC Ready?





## A PUSHER'S TALE

by Evan Schindewolf (Fringe)

### Drivers

Lawrence Wu, Hee Jung Koh

### Buggies

Lucy (2011)

Buggy X (2018)

### Mechanics

Chris Calder, Ella Lazareva, Mason Sofia

### Pushers

Davey Hiles, Arya Hezarkhani, Connor O'Kelly, Jeff Zhao, Bryant Backus, Ella Lazareva, Amanda Hadley Soyk, Jordan Linville, Lexi Elliot, Josie Simmons

### Flaggers/Timers

Chris Ng, Malik Khan







Late to the game but here to play is SAE. With a brand new buggy and a push team stronger than ever, you can still find us at the bottom of Hill 1 playing Ricky Ricardo on repeat or singing Call Me Maybe on the back hills.

**Chairmen:** Mason Sofia and Chris Calder

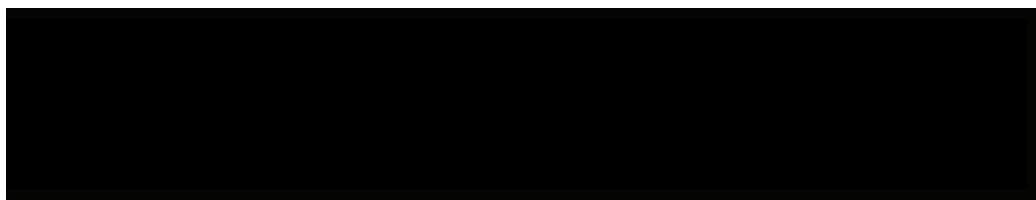
**Assistant Chairmen:** Chris Ng and Malik Khan

**THREE.** Woke up at 6, at the course by 6:30. Spanning roughly three months each semester I arise into the often bitter cold thrilled to begin a new day of Rolls, finding exhausted mechanics jumpy from the excitement and drivers napping before their thrill rides. **TWO.** Rolls, sprints, weights, its all been to train my two legs for power and speed. Two semesters of practice culminate in two chances to show how hard I've worked. It all comes down to two final races at the pinnacle of Carnival. **ONE.** One hill. That's it. I get one hill, whether it be the endeavorous climb of Hill One, the quick burst of Hill Two, the chase of Hill Three, the rigorous mix of Hill 4, or the all-out-sprint of Hill Five. I get one hill. This is what my year of training comes down to, mastery of my one hill. **READY.** The time has come, I've practiced transitions, I've donned my uniform, and I've memorized when and how hard I need to push to finish my one hill as fast as possible. Jump, twist, stretch, anything to make sure I'm warm and perfectly ready for when my time comes. **SET.** I glance to my neighboring hills. Meet eyes. Brief nod. It is time to show everyone just how hard we've worked for our team. It is time to show everyone how many hours of practice we've put in. It is time to show everyone how well we've mastered our one hill. The time has come. **BEEEEEEEP.**



# A MECHANIC'S TALE

by Andre Gutierrez (APEX)



## Drivers

Victoria VanBenschoten, Taylor Davis, Archana Navada

## Buggies

Raptor (2011)  
Banshee (2013)  
Clíodhna (2016)

## Mechanics

Aaron Silverstein, Robert Levin, Vinny Damiano, Charlie Aguilar, Billy Shancey, Lior Barhai, Nick Calzolano

## Flaggers/Timers

Matt Klein, Jacob Kline, James Summers

## Special Thanks

Patrick Tan - King of Capes





# PIKA



Thank you to the Alumni for your continued support.

**Chairman:** Ryan Barrett

**Head Mechanic:** Justin "Squid" Belardi

**Men's Push Captain:** Willy Clark

**Women's Push Captain:** Megan Jaeb

In my experience commandeering the top team on campus, there are two types of buggy teams on campus:

There are some teams who prefer to manufacture extraordinarily similar buggies to keep their spot at the top. Perhaps there is a correlation between winning and secrecy? Others take a completely different approach, focusing on improving their buggy by iterating. Apex in particular keeps their hatches open to anyone who asks, helping new teams along the way learn how to build. Innovation of the sport and helping everyone achieve their goals is most important for us; I guess other teams have other priorities... In our relentless spirit of innovating creative solutions to interesting problems (the "jank" factor) we have learned a thing or two:

- Never forget 0.475". It is the magic number.
- Sand for as long as you can! Your hands and lungs will thank you
- Yelling Kingsman at a mechanic increases tool-catching abilities by 1000%
- Ghost math: rattling off a series of numbers to the person milling then leave
- Take your time at rolls when you're up next! Sweepstakes and other teams will love that. Wow, what an easy way to win Chairman's choice! (Try walking an ironman to get hella swole)
- Your pushers really love it when there are only four of them to push three buggies.
- Nothing like timely purchased champagne for a great day of rolls that hasn't happened yet for a good luck charm. (Top it off with a trophy shelf)
- Perfect your time management skills. Bonus points if you get < 1 hour of sleep before a full day of rolls. Great way to save time by getting two days for one!
- Prove your buggy assembly mastery by taking apart your brakes and putting them back together by drops the morning of rolls. Don't stop there, try the steering next!
- Pushbars are optional. You are encouraged to think outside the buggy
- You'll want to stand in place after Hill 2 to admire the buggy you've just pushed off. Any other buggies or cars behind you will simply move around you or join you.
- Pedestrians, cyclists, and especially joggers always have the right of way. Kindly remind your drivers they must yield
- Hold hunger games style arena battles for control of the shops speakers for the day
- KNARPs, angle grinders, and dremels!!! No further explanation necessary.
- A wall of shame to commemorate major failures serves as inspiration for future projects!



SWEEPSTAKES  
2018

### Drivers

Sarah Deluty, Adeline Shin

### Buggies

Argo (2017)

### Special Thanks

Thanks to all the brothers of Phi Delta Theta for the support, and thanks to all our amazing team members!





# PHI DELTA



This is the second year that Phi Delta Theta will compete with our first self-built buggy, Argo. We hope to improve our times across the board, and have a ton of fun doing so! Come say hi on raceday and have some of our signature donuts and coffee!

**Chairmen:** Pieter de Buck and Chetan Somani  
**Head Pusher:** Malcom Fitts

## CAMILLA XU

Chairman

I knew that the job of Sweepstakes chairman (or rather, chairwoman) would be very different than what I was used to as a mechanic, even before I ran for the position. So I was hesitant whether I should run at all, because the prospective of being an old person on my team free from any administrative work was extremely enticing. Then, my friend, Connie, pointed this out to me: “You’ll get to ride in the lead truck for free! Twice, if you can come back as head judge!” That won me over, along with the urge to try something new and see buggy from a broader perspective.

Later on, I learned that even the addition of a nice free jacket cannot justify the amount of energy required of a Sweepstakes chairman, if we are talking in materialistic terms. But what I experienced while in this position made every moment of it invaluable. When a team who has been struggling to fix their buggy makes their first successful roll in that buggy; when veteran drivers from one team say to a new driver of another team who has no one to guide her: “Yeah sure, come on the coursewalk with us”; when the blue starts peeking out from the sky and I call the first clear of the day; even when Jasio announces things in the most unimaginably dramatic way—each of those and more fill my heart with blubbering, sappy warmth, even if my fingers are freezing off in the cold. I love the raw zest and passion that drive this insane sport and is in every crazy but amazing member of the buggy community.

A special thank you to Elyce and Jasio for always being so dependable, and to Kaycee for making sure I actually do everything I need to do. I look forward to an incredible Raceday 2018, and it’s been an extreme honor and privilege that I’ve been able to serve as your chairman on this journey. Thank you guys :)

# ELYCE MILLIGAN

Assistant Chairman

Hi everyone! I am honored to be the Assistant Chair for Sweepstakes and have enjoyed being a part of buggy. I came to CMU not knowing what buggy was at all but ended up joining CIA my freshman year. After being a pusher mechanic, and holding a couple of leadership positions within CIA, I realized that even though I loved being a part of CIA, I didn't really know any of the other teams at all. When I realized my friend Jasio was planning on being the Safety Chair, I knew I wanted in on getting to know all the orgs (and the fancy jackets). I'm glad I decided to join as I think that our Sweepstakes Committee is one of the most functional and fun committees. I've really gotten to know Jasio and Camilla, and I've gotten a much wider view of buggy. I didn't realize just how much Sweepstakes did for the buggy teams, but I'm glad I was able to be a part of that and make buggy fun and safe. I hope all the teams had as much fun as I did and wish everyone the best of luck!

# DAVE SINGH

Design Comp Chairman

Buggy is an inherently ridiculous sport. I absolutely love that CMU has taken it so far through competition and collaboration alike. It's only fitting that CMU takes this crazy sport and optimizes designs for decades just to cut a few seconds off race times. I fell in love with buggy at the finish line during my first rolls, when I watched a buggy that I had worked on complete the course with ease. I wanted to be Design Comp Chair so I could maintain and enhance the experience for those who attend or even just pass by the Showcase. I wanted children to be enthused by the vibrancy and strangeness of buggies and I wanted alumni to be proud of the work of the generations behind them. I wanted mechanics to see their hard work come to fruition as judges critique their designs.

#diditforthejacket

## Drivers

Helen Kim, Amy Chen, Nina Prakash, Sarah Connor, Tishya Girdhar

## Buggies

Bissa (2012)

Bolt (2014)

Boson (2016)

Blueshift (2017)

Bumper (2018)

## Mechanics

Diya Nuzoll, Raul Martinez, Declan Kelly, Nalini Jain, Hunter Rideout, Emilie Harold, Gordon Wissinger, Brevin Mixon, Cindy Su, Bryan Tiggs, Dave Singh, Elly Seller, Emily Sespico, Harper Weigle, Joanne Zulinski, Libby Armon, Natalie Herrmann, Nigel Nderi, Seema Kamath, Sophie Yang, Tahj Spigner, Vidhi Patel





# FRINGE



“Meet the underdogs from Fringe; their key to success? What else, pizza and beer.”

**Chairman:** Declan Kelly

**Assistant Chairmen:** Nalini Jain and Emilie Harold

**Head Mechanic:** Diya Nuxoll

**Assistant Head Mechanics:** Raul Martinez and Dave Singh

**Head Driver:** Helen Kim

**Men’s Push Captain:** Evan Schindewolf

**Women’s Push Captain:** Jia-Min Ooi

## JASIO SANTILLAN

Safety Chairman

(Coming soon to a Carnival near you)

IN A WORLD... where chaos and unbagged buggies run amuck... one man with a really cool jacket will rise up and take a stand. This is his story...

Bet you’re wondering why I’m being so dramatic. It’s because this is a serious job with serious consequences. And I’m the only one who can do it. Okay, that’s not true. I actually feel really lucky, to be such a big part of buggy and in keeping this crazy sport alive. I could go on and on about the job, but I don’t want to hit my character limit with this thing. Could I be the Safety Chairman that gets buggy canceled for good? Probably. But at least I can say it’s been a fun time. Getting to know all the teams and being able to help with all these buggy builds has been an unforgettable experience. Definitely worth missing those many many many many hours of sleep to see all these buggies out here and knowing I’ve done my best to make sure everyone is safe. It’s been amazing being able to see the innovation, creativity, and heart that goes into each of the buggies I’ve Caped. It’s so hard to not share it with everyone. Meh, I’m gonna graduate. Why not? Ok so the secret to SDC’s buggies is that they actually use

## SAM WONG

Buggy Book Chairman

I’ll be honest, buggy is one of those things that I hate to love and love to hate. The early mornings, cramped spaces (yep, I’m also a driver), and stressful racedays - buggy has kind of become my life these past 3 years, for better or worse. And although I started this year saying I would lessen my commitment, somehow (@ free jacket) I ended up here - Buggy Book Chair and Head Driver/Lowkey Push Captain for my team. As much as I may hate myself for making these commitments when the times get tough, there is always a small part of me that’s really proud to be a part of this crazy thing called buggy. Getting to work with all of the teams and hear from drivers, pushers, mechanics, and chairmen across the sport has definitely given me a new appreciation for the heart and soul that everyone puts into their buggies. It’s been a pleasure to document this crazy year of buggy, and I hope everyone has a great raceday!





### Drivers

Emily Wong, Kady Yip, Rachel Motz, Jessica Yin, Meaghan Kennedy, Kevin Wang (that one time)

### Buggies

Emperor  
Tempest  
Equinox  
Icarus  
Impulse

### Mechanics

Sarah Chen, Alicia Carrion, Alan Qiu, Fatima Basit, Sabrina Wang, Emily Albergo, Louis Plottel, Reid Long, Ishraq Bhuiyan, Jean Zhang

### Pushercanics

Raghu Venkatesh, Bobbie Chen, Enes Palaz, Rachel Hsin, Oshadha Gunasekara, Yushuan Peng, Stuart Wilkins

### Special Thanks

AAlumni, Frank & Lou, Shafeeq Sinnamohideen, Guillermo Gomez, Ben Matzke, Luis Hernandez, Allison Lim, Dan Becerra, Charlie Munoz, Rebecca Tien, Laura Kee, Daryl Browne, Ariana Daly, Aldy Lawantara, Pancakes, Bales, Mountain Dew, Duct Tape, Birds



# CIA



Founded in 1970, the Carnegie Involvement Association, or CIA, was the first independent (non-Greek) organization to win Sweepstakes, or Buggy. Open to all members of the student body, CIA's objective is to strike the right balance between performing well and having a blast!

**Chairman:** Bobbie Chen

**Assistant Chairman:** Isabel Murdock

**Head Driver:** Emily Wong

**Head Mechanics:** Sarah Chen, Jean Zhang

**Push Captains:** Sasha Volodin, Corey Emery, Adolfo Victoria, Julian Trulear

**Support Chairs:** Aileen Zhai, Bonnie Li

**Social Chairs:** Sabrina Wang, Tabatha Pina

**Treasurer:** Alan Qiu

**Secretary:** Kady Yip

**Pancake Chair:** Xiang Luo

**Nerds Chair:** Brandon Jin

**PR Chair and Atlas Chair:** Oshadha Gunasekara

**Alumni Relations:** Sarah Hempton

**Cabinet Advisor:** Sarah Dieckmann

**Faculty Advisor:** Conrad Zapanta

# THE TEAMS



# APEX



Apex began in 2012 when a group of friends living in the Rez on Fifth had the crazy idea of starting a buggy team. Now entering its sixth year, Apex remains dedicated to the principles that motivated its formation: teamwork, passion, innovation and excitement. Apex aims to challenge the field of buggy by not living up to the status quo set by other organizations; we want to see the sport succeed through collaboration within the buggy community. Apex is a team that researches, designs and engineers buggies. But first and foremost we are a group of friends who have come together to support and challenge each other, share our excitement of buggy and to have fun along that way. So if you are interested in buggy and want to learn more stop by our shop, our door is always open.

**Chairman:** Ryan Christianson  
**Assistant Chairman:** Maddy Arcurio  
**Head Mechanic:** Andre “sucks” Gutierrez  
**Assistant Head Mechanic:** Maxwell Johnson  
**Head Driver (and Low Key Push Captain):** Sam Wong  
**Treasurer:** Veronica Seward-Aponte  
**Social Chair:** Kevin Xuan

## Drivers

Sam Wong, Ari Mapua, Bethany Bauer, Vicki Wang

## Buggies

Phoenix (2013)

Ember (2014)

Firefly (2017)

Azula (2018)

## Mechanics

Abigail Rafter, Andre Gutierrez, Andrew Ye, Anna Anderson, Ari Mapua, Arjun Raguram, Bethany Bauer, Chris Kaffine, Connor Hayes, Evan Zeng, Jasio Santillan, Kayleigh Boyle, Kevin Xuan, Lucian Montgomery, Maddy Arcurio, Mark Cho, Maxwell Johnson, Ryan Christianson, Sam Wong, Sprina Wu, Sydney Baker, Vidya Shastry, Vicki Wang, Vivaan Bahl, Zoe Provost

## Special Thanks

Adam McCue, Antonio Freiria, and all of our amazing alumni who have supported us through the years!

