



THE UNIVERSITY OF ARIZONA  
College of Engineering

*Wildcat*  
FORMULA RACING



# The Wildcat Formula Racing 2017 Sponsor Information Packet



# A Letter from the Team Captain

Thank you for your interest in Formula SAE at the University of Arizona, also known as Wildcat Formula Racing. My name is Madysen Washburn, and I am the proud team captain of the 2016-2017 Wildcat Formula team.

Since 1994, the University of Arizona has been designing and building prototype race cars for the intercollegiate competition hosted annually by SAE International. This competition requires students to design, fabricate, test, and compete a unique, single-seat, openwheeled, internal combustion Formula One styled track car. On top of this, the competition challenges our team's engineering abilities by establishing a series of static and dynamic events which test the team and their vehicle. Many members are students who have minimal knowledge initially but grow to possess extensive understanding and expertise with suspension, fabrication techniques, electronics, drivetrain, and powertrain subsystems. The greatest strength of our team is the hard work put forth by all of our members; all together the team has spent over 4,000 hours developing the 2016 car. We are comprised of over twenty undergraduate students of primarily engineering backgrounds who set forth to master the complex processes required to build a competitive race car.

Wildcat Formula Racing pays for materials, services, and competition costs through fundraising, sponsorship, and donations. The estimated total cost of the 2016 car is currently \$40,000-\$45,000 including services and labor donated by local companies. Annual competition costs are approximately at \$6,000 including travel, hotel accommodations, and registration. Additional costs include consumable shop materials which can cost upwards of \$2,000 a year. We value all sources of aid from sponsors, including financial support, parts, labor, and knowledge.

I have included more information about the team's history, achievements, and future goals in the following pages. I hope that you will consider supporting our team during the design and development of the WF17.

Sincerely,



Madysen Washburn

Team Captain, Wildcat Formula Racing at the University of Arizona

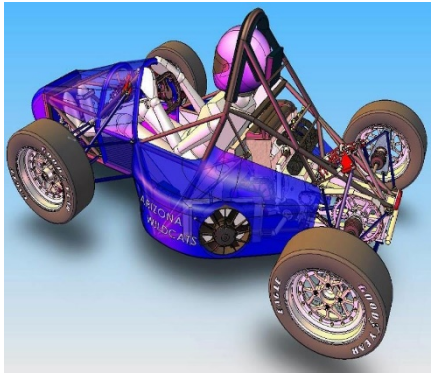
# Team History

## Past Cars

**WF04**



**WF05**



**WF06**



**WF07**



**WF08**



**WF09**



**WF10**



**WF11**



**WF12**



# Team History

## The WF14 and WF15

### WF14

The WF14 represents a turning point in the team's history with over two years spent designing, building, and testing. Extensive research and development efforts were put into the elimination of the rear frame and the creation of a semi-stressed engine and custom hanging differential mount. In addition to the new designs, a custom data acquisition system was created to monitor various aspects of the vehicle such as strain gauges, accelerations, and GPS coordinates. With increased focus on lightening components such as the integration of Carbon Fiber and Kevlar body panels, this quick and compact race car weighed in at 509 pounds. The WF14 became the baseline for future designs and team growth standing out in copper paint to honor Arizona's rich history.



### WF15

The WF15 is the lightest, most powerful, and competitive car yet weighing in at 495 pounds. Some of the most notable design changes implemented on the WF15 are the carbon fiber body, ergonomic pedal tray, 3D printed intake, titanium headers, and a modified engine. With this car the University of Arizona moved up 18 spots from the previous season impressing both the judges and fellow teams. The WF15 is just the beginning of what to expect from Wildcat Formula Racing.



# Team's History

## The WF16

The WF16 showcases the talent and determination that is Wildcat Formula Racing. By redesigning the corner assembly, fabricating encased spherical bearings into the control arms, and redistributing load bearing nodes. The WF16 has become the most fundamentally sound race car built to date. With a reduced weight and better overall performance, the WF16 was able to jump five spots from last year's ranking, making it a formidable contender in the Formula SAE scene.



# Sponsor Benefits

## Platinum

**\$3,000 or equivalent value of parts or services**

Large Company logo display on car  
Company logo display on website  
Tour of shop

## Gold

**\$1,000 or equivalent value of parts or services**

Medium Company logo display on car  
Company logo display on website  
Tour of shop

## Silver

**\$500 or equivalent value of parts or services**

Company logo display on car  
Company logo display on website

## Bronze

**\$250 or equivalent value of parts or services**

Company logo display on team website

# Community Outreach

The Wildcat Racing Team participates in many local and regional events such as club fairs, educational events, and auto shows. The team members play an important role in these events while gaining leadership and professional communication skills. Participation in these events supports our club and our community while representing The University of Arizona.

**College of Engineering Club Fair**



**Car Con in Tucson**



**Freshman Information Session**



**Cars and Coffee**



We appreciate your time in getting to know our club and the many ways we are improving the education of young engineers. If you would like to donate in any way, please fill out the form on the following page. Thank you!

# Donation Form

## Donor/Company

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Website: \_\_\_\_\_

## Monetary Donation

Amount: \_\_\_\_\_

\*\* Please make checks payable to UA Foundation (Formula SAE). Tax ID foundation number for U of A: 990.  
Tax return is 86-6050388 and submit with this form. No goods or services have been provided in exchange for this contribution. If mailing this form, please send to:

University of Arizona College of Engineering  
Attn: Claudia Arias  
1130 N Mountain Ave., N509  
Tucson, AZ 85721-119

## In-Kind Gift Donations :

For all In-Kind gifts be contact the College of Engineering Development office at 520-621-8051 or email Claudia Arias at [engrdev@email.arizona.edu](mailto:engrdev@email.arizona.edu) for paperwork and forms.