



# ***PENN COLLEGE***

## ***BAJA SAE 2022***

### ***SPONSORSHIP PACKAGE***



PERFORMANCE  
MADE BY HAND



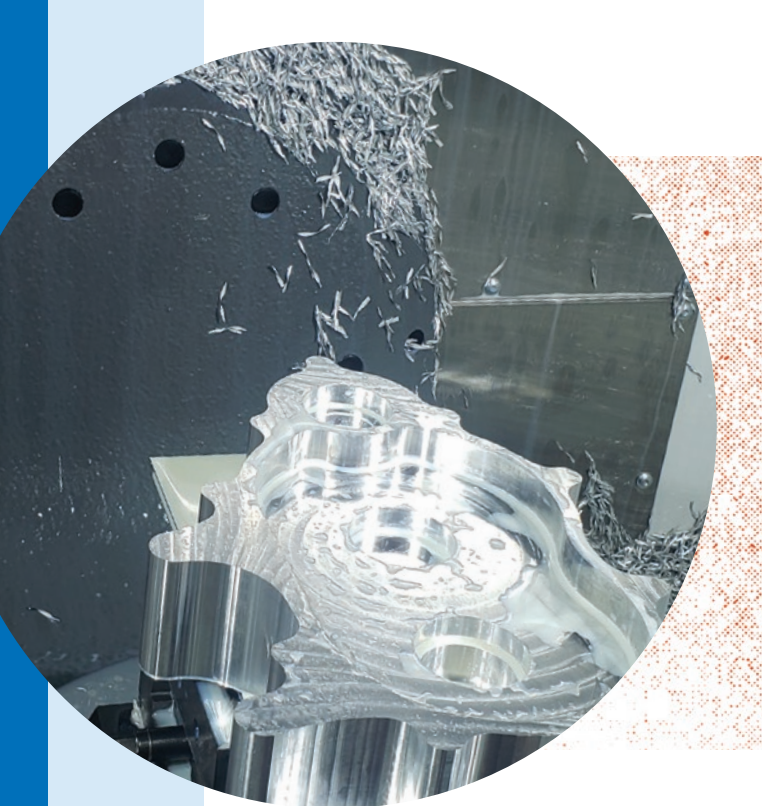
DESIGN



BUILD



COMPETE



### THE CHALLENGE

To design and build an all-terrain prototype vehicle in accordance to the standards set by the Society of Automotive Engineers (SAE®). The challenge is to survive the severe punishment of off-road wheel to wheel racing, jumps, boulders, rock crawling, and tight technical courses.

### THE PROCESS

Baja SAE is a competition organized to simulate real world project management, innovation, design, validation, reiteration, and manufacturing of vehicles. Students must design and build the vehicle, promote the team, and acquire the financial and technical support needed to complete the project.

## COMPETITION EVENTS

### THE COMPETITION

Baja SAE North America consists of three annual competitions, each featuring upwards of a hundred collegiate competitors from all around the world.

### STATIC EVENTS

Presentations of design analysis and reports of the vehicle's quality, construction, cost, and marketing strategies.

### DYNAMIC EVENTS

Small courses designed to push the car to the limits, including suspension & traction (S&T) and maneuverability. As well as mild courses such as sled pulls, hill climbs, and acceleration tests.

### 4-HOUR ENDURANCE RACE

After surviving the dynamic events, we experience four hours of wheel to wheel racing. An extreme test of the vehicle's integrity and the team's morale!

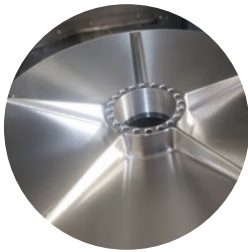






### THE TEAM

We are a collective of undergraduate students studying in majors including manufacturing, engineering design, metal fabrication, automotive management, and more as our roster grows and recruits greater numbers within the College. While many of our team members bring diverse skill sets with them into the club, each member leaves with multidisciplinary skills they develop through meeting the challenges posed by the Baja competition.



### 2021 RESULTS

After an early shutdown to our prior season, 2021 proved to be an adverse season out of which we emerged with the most decorated competition results in our club's history. The focus leading up to the 2021 competition was an updated frame featuring new front and rear suspension geometry, along with the second generation of our continuously variable transmission (CVT) design.



### 2021 BAJA SAE LOUISVILLE

- ◇ 3rd in Endurance
- ◇ 4th Overall (out of 82 teams)

Between a new car, CVT, and mostly fresh team there were a lot of firsts for everyone who worked together to make our performance at Louisville possible. We balanced on a razor edge of failure for much of the last week leading up to competition all the way until the car was on track for the first time. Then, after getting on track our hard work paid off as we found our stride in taking top 10 in all but one event.

# TEAM RESULTS

## 2021 BAJA SAE LOUISVILLE

4TH OVERALL (OUT OF 82 TEAMS)

3RD IN ENDURANCE

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## 2019 BAJA SAE TENNESSEE

21ST OVERALL

8TH IN ENDURANCE

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## 2019 BAJA SAE ROCHESTER

15TH OVERALL

8TH IN ENDURANCE

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## 2018 BAJA SAE MARYLAND

14TH OVERALL

7TH IN ENDURANCE

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## 2018 BAJA SAE KANSAS

24TH OVERALL

2ND IN SUSPENSION & TRACTION





# 2022 GOALS

## TEAM GOALS

- ◇ Achieve the first top spot in endurance in our club's history
- ◇ Prepare a large class of incoming freshman and sophomore students to carry on the club
- ◇ Expand the scope of the Baja team within the College

## DESIGN GOALS

- ◇ Refine the design of the gen 2 primary CVT
- ◇ Update the secondary CVT pulley to complement the update to the primary
- ◇ Lay the foundation for the upcoming 4WD drivetrain design
- ◇ Manufacture all major components of the 4WD to be assembled and tested in the coming year
- ◇ Utilize the newly update test track featuring more diverse terrain to test each new subsystem



## SPONSORSHIP

The success of the Penn College Baja team is only made possible through the generous support of our sponsors. By supporting our team in this engineering challenge, your company is helping to empower students and cultivate future engineers. Students who participate in this project graduate with extensive technical experience and managerial skills that make them highly marketable industry leaders.

The Penn College Baja team is offering your company international exposure at our annual competitions, where over 2,500 young engineers will be attending. We also established our local presence at the Little League World Series, and Penn College internal events that attract prominent faculty and alumni. Through exposure with our team, your company can gain international recognition and a friendly image in the community.



## PLATINUM SPONSORS

**LYCOMING**™



## SILVER SPONSORS



## BRONZE SPONSORS



## SPECIAL THANKS TO

Charles W. Oldt  
Rebecca A. Steer  
Kenneth F. Healy '90  
Dr. Bradley M. Webb

Ellis D. Dunkleberger '12  
Dale C. Tennett '09  
Shane A. Linderman '16  
The Schweikert Family



# LEVELS OF SPONSORSHIP

### PLATINUM: \$5,000

- ◇ Promotion of your company during public events
- ◇ Recognition on PCT Baja social media
- ◇ Large company logo on team T-shirt and website
- ◇ Large company logo on vehicle

### GOLD: \$3,000

- ◇ Recognition on PCT Baja social media
- ◇ Medium company logo on team T-shirt and website
- ◇ Medium company logo on vehicle

### SILVER: \$1,000

- ◇ Small company logo on team T-shirt and website
- ◇ Small company logo on vehicle
- ◇ Recognition on PCT Baja social media

### BRONZE: \$500

- ◇ Company name on team T-shirt and website
- ◇ Recognition on PCT Baja social media

All forms of donations are accepted, and a receipt for tax purposes is provided.

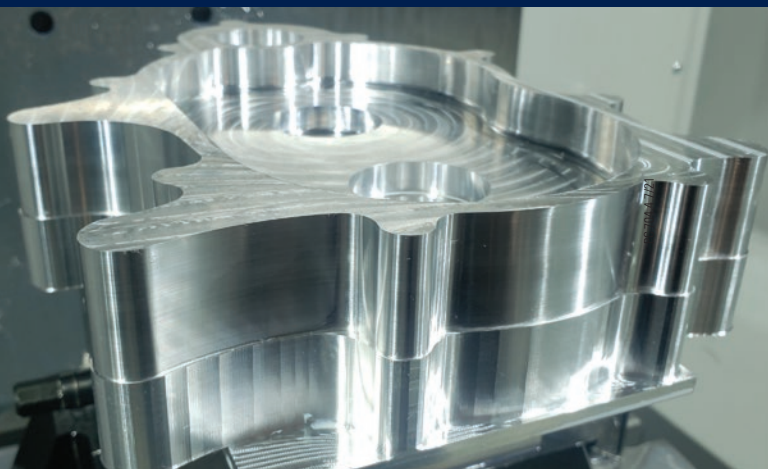
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