ABOUT US

Cal Poly Racing is California's largest student chater of the Society of Automotive Engineers (SAE). Our team is composed of over eighty active members, and each year we design, manufacture, test, and compete with three innovative race vehicles as participants in the SAE Collegiate Design Series. This series challenges university students from around the world to apply their skills outside of the classroom as part of a project that closely imitates industry practices. Cal Poly Racing is the only team in California that fields vehicles in all three fo the series' major competitions: Forumla SAR, Formula SAE Electric and Baja SAE.

Our vehicles are evaluated by indsutry experts not only for their performance characteristics and incorporation of innovative designs, but also for their potential as production items. Becuase of this, wer are more than just a team of engineers. Cal Poly Racing is composed of students from various disciples who function together as a business. This enables our members to practice project management, finance and marketing in addition to engineering. The experience and skills developed by members of our team cannot be acquired in any other university setting, and this givces us unparalleled preparation for success in our careers.

To meet our ambitious competition goals each year, Cal Poly Racing requires the generous support of our industry partners for materials and services. We seek to develop mutually beneficial relationships with our partners, who choose to contribute materials, knowledge, services, or other forms of support. In return, we offer partners increased brand recognition and networking opportunites with our taleneted student members.

Nick Jones
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CAL POLY RACING
SAN LUIS OBISPO

BAJA CAR SPECS

This rear wheel drive vehicle has a turning radius of just under 6 feet, a top speed of 38 miles per hour, and is capable of safely and reliably overcoming tough terrain. It features a unique five link suspension, Fox Float air shocks, a 10HP Intek Model 20 enginge - generously provided to all teams by Briggs and Stratton - a fine-truned continuously variable transmission, high impact custom ody panels and skid plates, and a custom build high efficiency gear-box.

ABOUT BAJA SAE

Our Baja SAE team has top performing cars, placing 12th at the Washington competition in 2013, 9th at the 2014 competition in Texas, and 5th at the 2015 competition in Oregon. The competition challenges the car during a 4 hour endurance race, rock crawl, hill climb, and acceleration challeneges. These events are designed to push our engineeing designs to failure, and rolling vehicles is a common result. We train our drivers to read the demanding off-road courses through vigorous testing, which also ensures that our de-signs will be reliable throughout the competition.

ABOUT FORMULA SAE

At the Formula SAE Lincoln competition in 2015, Cal Poly's racing combustion vehicle placed 7th in the Autocross event. Of the 65 teams at the competition, only six were faster - most by a very slim margin. Our Fourmula SAE Electric vehicle endured extensive test-ing last year, demonstrating that we are one of the few teams in the United States capable of reliably running one of these vehicles.

FORMULA CAR SPECS

This year, our larger, unififed Formular SAE team has designed its combus-tion and electric vehicles with as many similarities as possible. This strategy enables us to incorporate proven designs from both previous vehicles, man-ufacture the new vehicles in parallel, and develop new innovations at a rapic pace. The combusion and electric vehicles will share suspension, steering, brakes, ergonomics, aerodynamics, and drivetrain systems ith only minor configuration differences. Both vehicles will utilize identical front carbon monocoques as driver cockpits. The layup process for our monocoque de-sign has been significally overhauled to imporve chassis stiffness. Both cars will share a suspension sysetm that incorporates new boxed-steel uprgiht that are 33% lighter than any we have developed before.

The driver controls system on our combustion vehicle will incorpoarte no-lift upshifts and rev-matched downshifts to maximize drivability and shave precious second off of our lap times. Our electric car's powertrain will benefit from regenerative braking, which maximizes range, and a stiffened drive-train for increased power delivery.