



SJSU SAN JOSÉ STATE
UNIVERSITY



SPARTAN RACING 2021 - 22 SPONSOR PACKET



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ABOUT THE TEAM

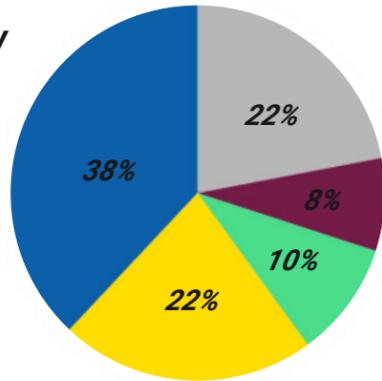
Spartan Racing is the Formula Student racing organization of San Jose State University's Charles W. Davidson College of Engineering. Our organization designs, manufactures, and competes with high caliber open wheel formula race cars at the international collegiate stage. The Spartan Racing organization consists of more

than 70 highly motivated students that come from multifaceted backgrounds such as engineering, business and multimedia, providing our organization with the necessary skill sets to be innovative, organized, and competitive against other top level teams during FSAE events.

Each year our team designs a new car with the goal of continuous improvement at competitions. We utilize the latest computer design and analysis software, innovative manufacturing and fabrication processes, and locally developed testing and validation methods, in order to produce the best formula student race cars internationally.

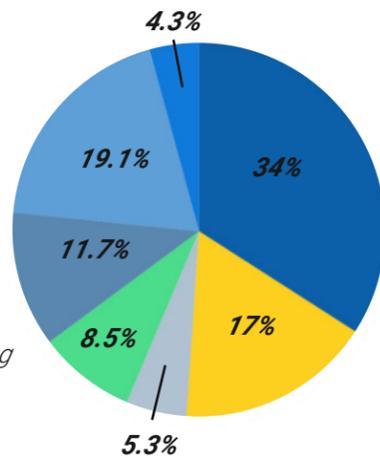
Team Ethnicity

- White
- Other
- African American
- Latino
- Asian



Majors

- Mechanical Engineering
- Aerospace Engineering
- Business
- Biomedical Engineering
- Computer Engineering
- Electrical Engineering
- Manufacturing Engineering



ABOUT THE COMPETITION



Each year, Spartan Racing and Spartan Racing Electric designs and builds a new open-wheel race car for the purpose of competing in the Formula SAE student design competitions. Formula SAE teams from around the world race to build the most competitive vehicle in time for competition which consists of a rigorous analysis of vehicle design by judges from professional backgrounds and contend in dynamic racing events.

The judging extends to events in Business management and Cost, while dynamic events

measure Acceleration, Skidpad, Autocross, and Endurance. Competition results are a reflection of a team's physical car, their understanding of it's design and validation, as well as the operational precision and reliability of the whole group. Many of the teams travel across the states and overseas for this formula-style competition to prove their engineering prowess and competitive edge. All in all, more than 100 teams come to this 4-day event to exemplify their university's engineering capabilities, camaraderie, and knowledge.

MEET THE TEAM



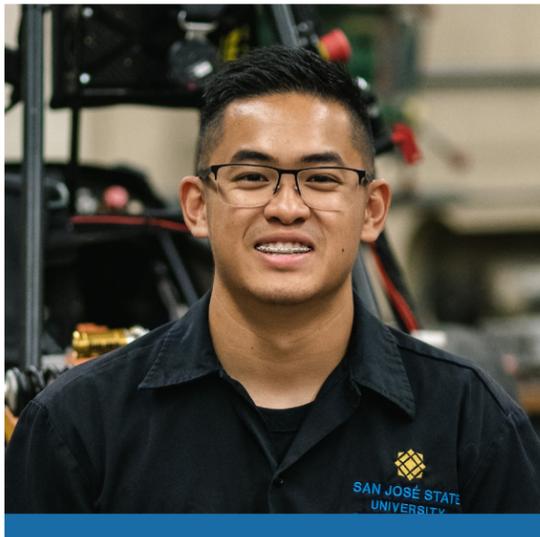
Allegra Robertshaw - Project Manager

Allegra Robertshaw is a fifth year mechanical engineering student with a knack for management. Having been through the process of design, manufacturing, and competition 3-years in a row, Allegra has a wealth of knowledge that will lead the team forward.



James Wong - Electric Chief Engineer

James Wong earned his B.S. in Nano-Engineering at UC San Diego and is currently pursuing a Masters in Mechanical Engineering. He has previously worked at Honda Performance Development working on IndyCar race engines as a performance engineer and now works in the defense industry while pursuing his graduate studies. He led the team amidst COVID lockdowns to a 2nd overall finish at the 2021 FSAE Michigan event with the first running electric car in SJSU's history. James' new goal for the season is to build a newly optimized car capable of seizing 1st place at competition.



Jason Do - Combustion Chief Engineer

Jason Do is a fourth year mechanical engineering student, whose thorough technical abilities and skill in organizing different aspects of the team made him an obvious choice for this season's chief engineer. Jason's goal for this season is to implement new and innovative designs to this season's race car and achieve a top 5 result at competition.



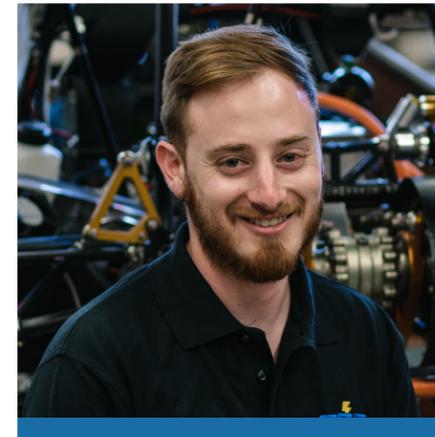
Alyssa Froelich - Electric President

Alyssa Froelich is a third year business student with a focus in management. Having assisted many of the leadership roles and having a background in finance, it was clear that her knowledge and drive would benefit the team substantially. Her goal for this season is to improve faculty relations and team logistics.



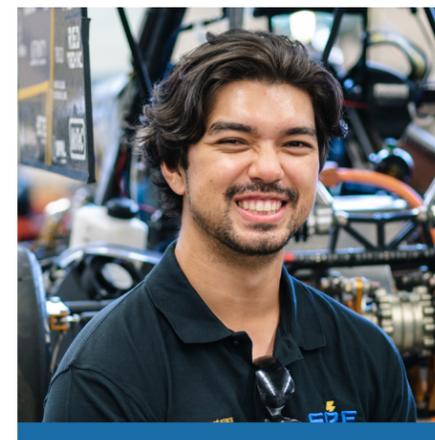
Josue Garcia - Combustion President

Josue Garcia is a fourth year mechanical engineering student whose goal for this season is to enable the technical and professional development of the entire team. Josue is also the Electronics lead overseeing DAQ, sensors, and wire harness development.



Matan Blum - Electric Treasurer

Matan Blum is a fourth year mechanical engineering student. Having a background in finance, it was clear that his experience would help us become more efficient and organized when dealing with the distribution of funds. His goal for this season is to efficiently and effectively decrease costs, all the while keeping the books organized.



Aaron Hylton - Combustion Treasurer

Aaron Hylton is a fourth year business student with a focus in management information systems. Aaron's combined academic background in business and dedication to the Spartan Racing organization, made him a great fit as treasurer. Aaron's goal for this season is to raise funds, reduce costs, and maintain the team's financial efficiency.

ACHIEVEMENTS

Our combustion platform proudly holds a world ranking of 74th out of 621 international universities, 20th in the USA, and 1st in California. During the FSAE Michigan competition, our combustion car was able to score top 20 out of the entire competition.

Our 2021 electric platform was the first race car in Spartan Racing Electric's history to pass the rigorous electrical tech inspections and compete in dynamic events during competition. In 2021, we scored the highest in the knowledge event in California and placed 2nd overall at the Validation event in Michigan. There, we scored 1st place in the endurance event, ranking our electric platform as 1st in California.

These achievements are a testament to our team's drive and capability to be a formidable competitor in the formula student competitions.



TEAM HISTORY - COMBUSTION



SR-1

Engine: Honda CBR600 F4i
 Horsepower: 73 HP
 Torque: 35 ft-lbs
 Weight: 470 lbs

SR-10

Engine: Triumph Daytona 675
 Horsepower: 83 HP
 Torque: 52 ft-lbs
 Weight: 420 lbs



SR-7

Engine: Honda CBR600 F4i
 Horsepower: 73 HP
 Torque: 37 ft-lbs
 Weight: 420 lbs



SR-11

Engine: Triumph Daytona 675
 Horsepower: 85 HP
 Torque: 54 ft-lbs
 Weight: 435 lbs



SR-9

Engine: Triumph Street Triple 675
 Horsepower: 80 HP
 Torque: 52 ft-lbs
 Weight: 420 lbs

SR-12.5

Engine: Triumph Daytona 675
 Horsepower: 90 HP
 Torque: 64 ft-lbs
 Weight: 420 lbs



TEAM HISTORY - ELECTRIC



SRE-2

100kW EMRAX 228 Electric Motor

300V, 7.2kWh Custom Battery-pack

Weight: 420 lbs

SRE-4

100kW EMRAX 228 Electric Motor

288V, 7.2kWh Custom Battery-pack

Weight: 465 lbs



SRE-5

100kW EMRAX 228 Electric Motor

300V, 8.1kWh Custom Battery-pack

Weight: 470 lbs

WHY SUPPORT US?

Due to the nature of the competition, the cost of our Formula SAE cars quickly exceeds \$100,000! As a 501(C)(3) non-profit organization, we rely heavily on support from sponsors. In addition to monetary donations, we also encourage sponsorship of materials and services that are necessary for our team to develop a new competing car every year.

By supporting the Spartan Racing team, you will receive a

unique opportunity to promote your company to a large variety of high level industry personnel who are involved with Formula SAE. Additionally you will have access to the next generation of engineers, all equipped with the skills necessary to design, build, and validate a complex engineering project. Your company will also be affiliated with one of California's top Formula SAE teams, allowing you to connect with SJSU's most qualified individuals as well as their professional

network. Your support will help talented students learn and develop necessary hands-on skills in engineering, business, and project management that are not taught inside the classroom.

We offer a number of different sponsorship packages including benefits that range from your logo on a prominent position of our car, access to our talent network and resumes, and access to our car and team for promotional services.



HOW TO DONATE

1. Mail a check to:

Mechanical Engr. Bldg, ATTN: Formula SAE Josue Garcia
 One Washington Square
 San Jose, CA 95192-0087

*Please indicate whether you would like to sponsor or donate to Electric or Combustion

2. Give online via giving.sjsu.edu:

- i. Select "Give Now"
- i. Select "Choose a giving opportunity"
- ii. Check the box that says "Formula SAE Fund" or "Spartan Racing Electric fund"

Spartan Racing and Spartan Racing Electric are registered as 501(c)(3) non-profit organizations. All donations are tax deductible. Please see your tax advisor or contact us for more details.

SPONSOR TIER BREAKDOWN

	<i>Partner</i> <i>Under \$2,500</i>	<i>Bronze</i> <i>\$2,500+</i>	<i>Silver</i> <i>\$5,000+</i>	<i>Gold</i> <i>\$10,000+</i>	<i>Platinum</i> <i>\$15,000+</i>	<i>Title</i> <i>\$30,000+</i>
Invitation to our unveiling	✓	✓	✓	✓	✓	✓
Honored on our official website	✓	✓	✓	✓	✓	✓
Logo on car	<i>X-small</i>	<i>Small</i>	<i>Medium</i>	<i>Medium + more prominent</i>	<i>Large + more prominent</i>	<i>X-Large + most prominent</i>
Logo on team gear		<i>Small</i>	<i>Medium</i>	<i>Medium</i>	<i>Large</i>	<i>X-Large</i>
Feature on social media			✓	✓	✓	✓
Access to Design Review Presentations			✓	✓	✓	✓
Spartan Racing Gift Basket				✓	✓	✓
Access to team resumes				✓	✓	✓
Vehicle display at sponsor's location					✓	✓
Profile on our website					✓	✓
Personal Sponsor Driver Day						✓

FSAE TESTIMONIALS

"One exposure/access point for SpaceX that is outside of the top schools is the FSAE competition in Michigan each year. FSAE draws teams from many different schools, and the teams basically design and build a race car from scratch. It's an amazing event; and SpaceX uses the event to pick up some of the best gear-heads in the country."

- Dolly Singh
 Former Head of Talent Acquisition, SpaceX

"What I find most appealing about Formula Student is the innovation that it encourages, as the competition rules give the entrants a lot of design freedom. This results in many different solutions to the same issues... Having worked my way up, I appreciate that to develop a good grounding in engineering, practical experience is essential. Formula Student combines hands-on practical applications with students' academic studies, but also gives experience in vital skills such as budgeting, project management and team work. Whether the competitors go into motorsports or a different sector of engineering...Formula Student will help towards their future success."

- Ross Brawn
 Former Team Principal Mercedes AMG Petronas F1 Team

"As an FSAE alumni I'm very familiar with the learning and experience that comes from participating in a top ranking FSAE program such as the Spartan Racing team at SJSU. I always look to FSAE grads for my new hire positions because of their ability to design and hit the ground running. I've hired four of them and know of several others internally, and every one of them has been an absolutely stellar hire. Contributing to and participating in the FSAE program has given us direct access to the best new Mechanical Engineering talent as they enter the workforce."

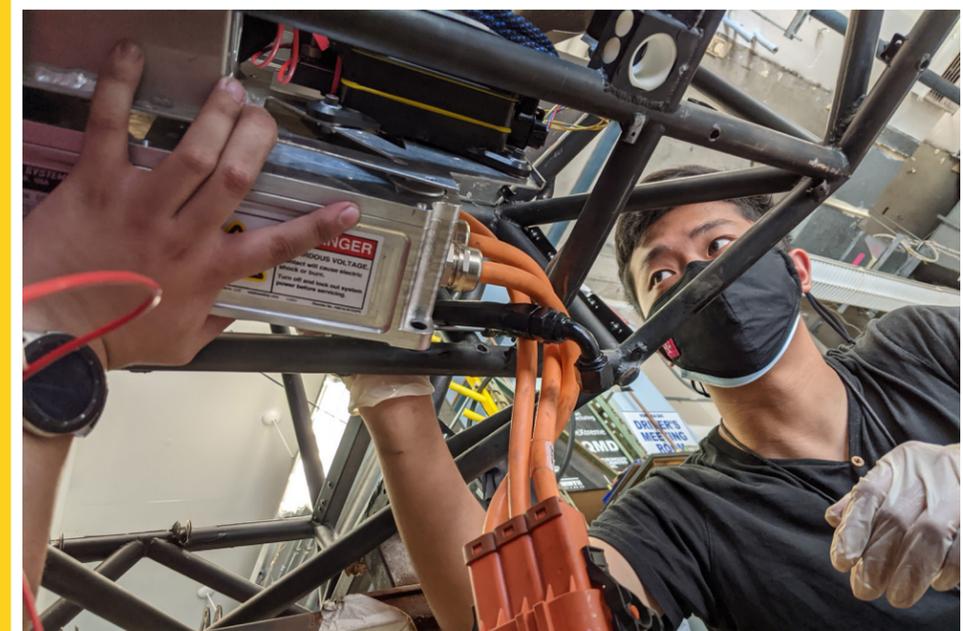
- Paul Doyle
 Mechanical Engineering Manager
 KLA-Tencor

"Students that are involved in team projects are much more successful and sought after by industry than students who do not have the advantages of teamwork, professional development and the hands-on skills developed by the competition."

- Dr. Robert Woods
 Professor; University of Texas at Arlington

"One of the keys to their success and ours at Mike Maier, Inc. is the SAE program. We in the industry all agree that the hands-on experience gets young engineers up to speed much faster. This is a key component for a company on the move. Formula SAE is a must for us when looking for new talent."

- Mike Maier
 Owner; Mike Maier Inc.



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BERGMAN PROTOTYPING BOOSTING CONCEPTS TO REALITY



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Special Thanks To:

- Central Shops
- Joey Penniman
- John Wolf
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- Dr. Okamoto
- Lydie Rashel
- Neil Peters
- Johnathan Rye
- Harry Quackenboss



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