



SAN JOSÉ STATE UNIVERSITY

Mechanical Engineering Department

**ME 195B Senior Design Project
Conference Day Schedule**

Date: May 14, 2021

Location: Virtual via Zoom

[Click here to register](#)

(Meeting links will be emailed to you upon registration)

Section 1 Presentations

Advisor: Dr. Raghu Agarwal

Presentation time	Project Title	Team Members	Sponsor
4:00 pm – 4:30 pm	Hybrid Wind Turbine	Cantillep Earl Chouggar Yacin Hermoso Miguel Ho Benjamin Huang, Justin Macias Robert Nguyen Leonard	Dr. Baldev Krishan
4:30 pm – 5:00 pm	SAE BAJA Power Train	Degery, Julian Gilbert, David Michael Knox, Garron Lambert, Andrew Tabatabaei, Aida	
5:00 pm – 5:30 pm	Compact RCS	Ayala David -Mendez Lee Brody Yew Fei Lim Aaron Nidumolu Ravi Sajidi Samya	
5:30 pm – 6:00 pm	Autonomus Delivery Robot	Cervantes, Antonio Dias, David Dominguez, Gabby Lau Flossie	
6:00 pm – 6:30 pm	FSAE Cooling System	Baltazar Jericko Jay Hylton Chris Petrell Mitchell Phul Jagjiwan	
6: 30 pm – 7:00 pm	Continuum Robot	Almirane Adriane Bentajado Jeanelle Le Hung Truong Peter Tran Jason	

Section 2 Presentations

Advisor: Dr. Raymond K. Yee

Presentation time	Project Title	Team Members	Sponsor
9:00 am – 9:30 am	Rideshare Vehicle Accommodation Device	Brandon Sirhan Karina Gonzalez Britney Lockman Oscar Lopez De Leon	Ford Motor Co.
9:30 am – 10:00 am	Collapsible Cup for Hot/Cold Beverages	Tiffany Chau Myung-Wha Nakamura Yvonne De Alba Tho Nguyen	Jason Blum
10:00 am – 10:30 am	Single-Rotor Variable Height Hover Test Stand with Custom Rotor Blades	Elizabeth Bautista Michelle Dominguez Brenda Senabria	NASA-Ames
10:30 am – 11:00 am	Enclosed Avocado Cutter	Alber Amaya Griffin Janigian Dan Nguyen John Vang	Professor Yee
11:00 am – 11:30 am	Collapsible Thermos	Abel Bandala Cole Green Takeru Saigo Alfonso Rios-Ochoa	Jason Blum
11:30 am – 12:00 pm	End-to-End 3D Print Plastic Recycling Machine	Marcela Puerta Kirby Luk Jesus Saucedo Arafat Aljabari	Petr Khromov
12:00 am – 12:30 pm	UVC Disinfectant Machine for Surface Sanitization	Dhonald Gatpo Rupinderjit Virk (EE) Ngoc Tu (BME)	Jabil

Section 4 Presentations

Advisor: Dr. Burford Furman

Presentation order	Project Title	Team Members	Sponsor
9:00 am – 9:45 am	10 m Model Track	Brandon Fong Collin Rikkelman Lam Nguyen Huan Le David Le Andres Camelo Garzon	
9:45 am – 10:30 am	10 m Model Bogie/Chassis	Andrew Alkakos Alex Kraus Michael Gee Devin Wong Kristian Buenconsejo Husain Bootwala Max Marinovich Juan Carlos Nava Jake Bondar	
10:30 am – 11:15 am	10 m Model Switch Arm	Kris Gonzalez Yanzhen Chen Jose Bravo Emilio Cruz Ian Geiger Jake Espinoza Andrew Poli Jingwen Tan Jesse Kavros	
11:15 am – 12:00 pm	10 m Model IoT/Charging	Phuc Tran Yit Voon Yap Pedro Serenini Jacob Villanueva	

Section 5 Presentations

Advisor: Dr. Vimal Viswanathan

Presentation order	Project Title	Team Members	Sponsor
12:30 pm – 1:00 pm	Design and Fabrication of an Assistive Luggage Porter	Alessandro Tognaccini Elenna Lie Islom Muminov	Self-sponsored
1:00 pm – 1:30 pm	Design of a Lower Orthotic Assistive Device (LOAD)	Stephanie Torres Joel Maniago Alfred Cenidoza Dominic Scalero Andrew Cenidoza	Dr. Vimal Viswanathan
1:30 pm – 2:00 pm	Redesign of the Dashboard of a Passenger Vehicle	Tanmay Gupta Nishan Natt Chun Jun Park Alejandro Ponce	Ford Motor Co.
2:00 pm – 2:30 pm	Design and Fabrication of a Compliant Mechanism for a Passenger Vehicle	Alvin Chu Steven Imoek Brian Ngo Nicholas Phan	Ford Motor Co.
2:30 pm – 3:00 pm	Testing and Fabrication of the Aeroshell for the Spartan Hyperloop	Kenneth Cai Connor Jackson Walker Kellogg Eddie Kuo Calvin Phan	Spartan Hyperloop
3:00 pm – 3:30 pm	Testing and Fabrication of the Chassis for the Spartan Hyperloop	Brian Checa Hoang Hoang Nick Karnow Tyler Miltenberger	Spartan Hyperloop
3:30 pm – 4:00 pm	Design and Fabrication of a Battery Enclosure for the Spartan Hyperloop	Phuc Do Tim Huang Jose Ramirez-Roman	Spartan Hyperloop

Section 6 Presentations

Advisor: Mr. James Mokri

Presentation order	Project Title	Team Members	Sponsor
4:00 pm – 4:30 pm	Vehicle Advanced Driver Assistance Systems Development Platform	Joshua Bevis, Team Lead Everardo Aguilar Ana Chang Noah Dubois Justin Leung Paul Zahorsky	Independence High School, San Jose
4:30 pm – 5:00 pm	Automated Gravel/Sand Bag Handling Machine	Gregoire Labat (Lead) Juan Calderon Louis Kwong Cory Nguyen Nghia Nguyen	Golden Gate Mechanical, Santa Clara
5:00 pm – 5:30 pm	Retractable Shuttle Bus Wheelchair Ramp	Vanessa Jimenez Andrew Leung Emma Moyer Tyler Seawright Freya Start	Toyota, Dr. Barez
5:30 pm – 6:00 pm	Automotive Pneumatic Shift System	Logan Palmer, Lead Gongyu Hui Irina Kim Julian Scott	Kundensport Gypsy Rack Bimba Manufacturing Groth Engineering LTA Research and Exploration
6:00 pm – 6:30 pm	Truck Lift and Load Apparatus	Ornin Akeryans Jesus Sanches Marc Sanders David Strunz Tony Velasco	Motiontekv, San Jose
6:30 pm – 7:00 pm	Electric Vehicle Charging Robot	Phillip Bui Jonathan Castro Michelle Duong Omar Gaona Kenny Lu	Kevin Cameron, Chris Novak

Section 7 Presentations

Advisor: Dr. Syed Zaidi

Presentation order	Project Title	Team Members	Sponsor
12:30 pm – 1:00 pm	Energy Analysis of Water-Cooled Photovoltaics and Waste Water	Trinity Chao Adonis Red Lacson Hoang Nguyen Tue Pham Samuel Simmons	IntelliScience
1:00 pm – 1:30 pm	Characterization of DBD Plasma Jet for Wound Healing & Sterilization of Chronic Wounds	Michael Banga Kathy Hoang Anthony Suman	IntelliScience
1:30 pm – 2:00 pm	CV Spot Welding Arm	Roberto Enriquez Wilton Lee Andorich Zarate Osorio	IntelliScience
2:00 pm – 2:30 pm	Automated Knee-Brace for Leg Muscle Rehabilitation	Emmanuel Cabral Haadi Elahi Marvin Pablo Ruijie Zhu	IntelliScience and students self-funding
2:30 pm – 3:00 pm	Passive cooling of a High-powered LED panel	Alexian Lin Bobby Zhu Jose Esquivel	IntelliScience
3:00 pm – 3:30 pm	Novel Technique to Improve 3D-Printed Parts	Andrew Marquez Jesus Marquez Justin Luu Mark Mateo	IntelliScience
3:30 pm – 4:00 pm	Thin Flexible Solid-State Batteries	Devon Turgeon	Jabil
4:00 pm – 4:30 pm	Pathogen Mitigation - Plasma Activated Water	Nathan Dejan Chris Valdivia Veronica Romo	Jabil
4:30 pm – 5:00 pm	Lab-on-Chip Microfluidics	Ralion Herzog and Swetha Kandiyil	Jabil