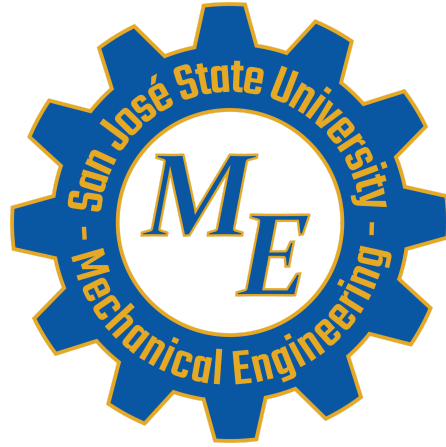




**San Jose State University
Mechanical Engineering Department**

ME 195 Senior Project Conference Day Schedules

Date: May 12, 2023

Section 1 Presentations

Advisor: Dr. Raghu Agarwal

Location: ENG331

Presentation Time	Project Title	Team Members	Sponsor
13:30-14:00	Optimization of Powertrain and Suspension System	Scott Mink, Jordan Hiestand, Grant Greenlow, Jurel Dizon, Brandon Chang, Sean Kreczowski	Royal Brass, Grob Inc., Lotus, Polaris, Wilwood, Kohler, VR3 Engineering, Haas Foundation, Cito Medical, Micro-Mechanics, AiM Sport, LLC., nTopology, Industrial Metal Supply, SJSU COE, SJSU AS.
14:00-14:30	FSAE In-Wheel Motor Outboard Assembly	A.J. Vallejos, Antonio Lopez, Jesbaam Sanchez, Keaton Fiske, Ulises Chavarria	SJSU Spartan Racing FSAE
14:30-15:00	Fiber Alignment System	Andrew Duong, Claudia Bird, David Oiwa	Jabil
15:00-15:30	Veggie Tray Filling Robot	Zachariah Davidson, Avi Ben Tov, Gabriel Gonzalez	Heinzen Manufacturing International
15:30-16:00	Adjustable Single Degree of Freedom Exoskeleton	Nathanael Lacuata, Brandon O'Dell, Anthony John, Cameron Pelletier, David Jefferson, Richard Lineberger	Dr. Mojtaba Sharifi, SJSU ME Dept.

Section 2 Presentations

Advisor: Dr. Buff Furman

Location: Superway Design Center

Presentation Time	Project Title	Team Members	Sponsor
13:00-13:30	Design and Optimization of the Adaptive Cruise Control for the Spartan Superway	Heather Knoblach, Jonathan Seryani, Sai Hein Si Thu, Zubin Parvereshi, Nagarjuna Patluri, Nate Smurthwaite	Spartan Superway
13:30-14:00	Design and Fabrication of Network Scale Energy Storage and Charging Station of the Spartan Superway	Christian Chaves, Luis Moreno, Jeremy Mendoza, Reyad Ramsey, Raiden Romero	Spartan Superway
14:00-14:30	Design and Optimization of the Small Scale Modular Track of the Spartan Superway	Allen Ma, Brandon Cline, David Lopez Rodriguez, Hao Train, Justin-Tam Nghi, Manraj Bhangu, Pawan Kattel	Spartan Superway
14:30-15:00	Design and Fabrication of a Dynamometer to test various motors for the Spartan Superway	David Cortes, Kirubiel Gebreselassie, Jose Guiterrez, Aryan Jadhav, Christian Potenti	Spartan Superway

Section 3 Presentations

Advisor: Dr. Igor Tyukhov

Location: ENG331

Presentation Time	Project Title	Team Members	Sponsor
09:30-10:00	Repairing and modernization of PV system in SJSU Community Garden	Jun Lang Lin, Konrad Wolfl, Luan Vo	SJSU Community Garden, Matthew Spadoni
10:00-10:30	Design, Manufacture, and Optimization of a Desktop CNC Router	Marco Koch, Kyle Boardman, Miguel Guzman-Alvarez, Erik Hull	Marco Koch, JP Metal Fabrication
10:30-11:00	Smart Personal Mobility Vehicle Drivetrain System Design	Chiu Chun Tsang, Hyon Kim, Jacob Schauerma, Schuyler Zandbergen	Dr. Raymond Yee
11:00-11:30	Design and elaborating photovoltaic-thermal dryer for SJSU Community Garden	Adriano Viveiros, Diane Saefong, Juan Escobedo Silva, Nathaniel Te, William Guan	SJSU Community Garden
11:30-12:00	Design and fabrication of an automated braking system for a bicycle	Bryan Mendes, Joshua Tongco, Nielei Anaya	Dr. Vimal Viswanathan
12:00-12:30	Development of photovoltaic ultrasonic mist maker humidifier for dry climate areas	Vivian Tran, Joshua Fountain, Fernando Medina	Self sponsored

Section 4 Presentations

Advisor: Prof. Harry Quackenboss

Location: ENG401

Presentation Time	Project Title	Team Members	Sponsor
14:00-14:30	Electric Kart Conversion	Joshua Ford, Gabriel Cruz, Brandon La Francis Supnet	SJSU Mechanical Engineering Dept., Self sponsored
14:30-15:00	Hybrid Folding Bike Conversion	Malcolm Jeng, Ivan Garcia Higareda, Amir Abousteit	Dr. Vimal Viswanathan
15:00-15:30	ASME Hybrid Bicycle	Hector Rincon, Andrez Bernal, Mandeep Singh, Cameron Reyes, Nay Chi Moe Htet, Mia Mendoza	ASME SJSU, Fusion360, Dremel
15:30-16:00	Belt Drive Bicycle Conversion	Pablo Correnti, Ninous Aprim, Alexander Garcia, Sebastian Pineda	Self sponsored
16:00-16:30	Design and Implementation of Industrial Plug Sorting Machine	Gabriel Yee, Joshua Cooney, Machiah Bey, Karen Pham, Tyler Yee	SJSU Mechanical Engineering Dept., Semano, Self sponsored

Section 5 Presentations

Advisor: Prof. James Mokri

Location: ENG135

Presentation Time	Project Title	Team Members	Sponsor
09:30-10:00	Wildfire Suppression Robot	Genevieve Ferrer, Andrew Each, Jonathan Leodones, Ediwn Navarro, Anthony Peters	SJSU Mechanical Engineering Dept., Prof. James Mokri, Andrew Persuad
10:00-10:30	Water Heating Challenge	Forest Shaner, Trent Tanko, Long Wang, Ken Ng, Ryan Poon, Roy Gonzalez	Self sponsored
10:30-11:00	EV Charge Robot	Aris Delos Reyes II, Quynh Tran, Truong Phan, Gene Ryan Pangan, Kenneth Lee	Kevin Cameron
11:00-11:30	Bagger Robot	Derrick Li, Brian Flores, Brandon Lenguyen, Daniel Figueroa Garcia	GoldenGate Mechanical
11:30-12:00	Waste Heat Recovery System	Emaan Haider, Olga Descalzi, Trong Duc Thinh Nguyen, Bikas Rattu, Ervin Joseph Soberano, Jessica Suarez, Mijia Wen	Tom Burns, President of GoldenGate Mechanical

Section 6 Presentations

Advisor: Dr. Syed Zaidi

Location: ENG343

Presentation Time	Project Title	Team Members	Sponsor
13:30-14:00	Bifacial Solar Panel: Characterization	Pedro Mendoza, Justin Bagaoisan, Brian Lee, Alberto Navarro	Intelliscience and HastestSolution
14:00-14:30	2D Scanning Mechanism for DBD Plasma Jet Scanning Over Wounds	Joel Bares, Nhuan Nguyen, Van Le, Vu Tran	IntelliScience Institute
14:30-15:00	Testing Novel Ideas for 3D Printing	Jackie Chang ,Sam van De-Graaf, Diego Soto Lopez, Erick Vasquez	SJSU Mechanical Engineering Dept., Dr. Syed Zaidi
15:00-15:30	Plasma Hoover for Surface Bacterial Mitigation	Eric Chen, Andres Cisneros, Spencer Hight, Calla Lang, Kobe Lee, Amanda Pansoy	
15:30-16:00	Characterization and Testing of a Bio-Leg Assistive Knee Brace	Nancy Nguyen, Ben Chin, Alireza Khoshnevisakhlagh, Charles Kelzer	IntelliScience Training Institute
16:00-16:30	Passive Cooling Technology for EV Batteries	Jacob Penzo, Janan Mirza, Sana Saleem, Carey Yip	IntelliScience Institute, SJSU Mechanical Engineering Dept.

Section 7 Presentations

Advisor: Dr. Hussameddine Kabbani

Location: ENG401

Presentation Time	Project Title	Team Members	Sponsor
09:00-09:30	Automated Isopropyl Alcohol Cotton Swab and Syringe Sterilizer Station	Raj Singh, Jared Biesty, Teddy Bullockus, Sean Day, Achint Jha, Emon Kandahari, Tien La, Gian Mendoza	Lockheed Martin Corporation
09:30-10:00	Intelligent Robotic Walker	Diego Andaluz, Martin Ethan De Guzman, Cecily Sagiao	SJSU Mechanical Engineering Department
10:00-10:30	Electric Motor Conversion Module	Shehana Liyanage, Max Rothe, Andrew Stavrenos, Jonathan Olivares, Logan Kowalk, Maxwell Moeller	Micah Ranallo (Engineer at Zero Motorcycles)
10:30-11:00	Design of Force-Sensing Test Bed for Robotic Laparoscopic Surgery	Lysette Zaragoza, Joshua Billman, Eric Barlog	McNair Scholars Program, SJSU COE Small Group Project Award
11:00-11:30	UNIFEED Breast Milk Homogenizer	Santos Alvarado, Nate Preston, Beverly Wilt	Kyzen LLC