



**San Jose State University
Mechanical Engineering Department**

ME195 Senior Project Conference Day Schedules

Date: May 10, 2024

Section 1 Presentations

Advisor: Dr. Raghu Agarwal

Location: ENG 301

Presentation Time	Project Title	Team Members	Sponsor
13:00-13:30	Side Mirror Cameras	Roshan Atwal, Jose Bautista, Hoang Pham	SJSU ME Department, self-sponsored
13:30-14:00	Chassis, Suspension, and Brakes	Asher Aldinger, Aaron Brink, Clarence Choi, Harry Allen, Hiren Patel, Ashwin Viswesvaran	SJSU Spartan Racing FSAE, Advanced Grinding, SJSU CoE, Peak Precision, Jem Laser, BMRS, Bergman Prototyping
14:00-14:30	Suspension Packaging For In-Hub Motors	Jeffrey Guevara, Jonathan Huang, Gabriella Khanitsky, Matt Rowland	SJSU Spartan Racing FSAE; thanks to Mike Kovacs, Mark Spencer, Jose Fernandez, Rich Mankins, Jeffery Yan, and Erwin Krolop
14:30-15:00	eVTOL Project	Rofaiel Dawood, Maya Enriquez, Rio Kanamaki, Harold Licas, Klaus Quinonez, Bhavi Shah	Self-sponsored, SJSU ME Department
15:00-15:30	Solar Tracking System	Jake Delgado, Luke Garrett, Sarks Halajian, Jack Hyland, Matthew McNeil, Felix Ohlgart	Lighting for Literacy, El Camino Machine and Welding, Steven's Shop, Bill Nedley
15:30-16:00	Optimization of Baja Powertrain	Daniel Johnson, Jordan Lloyd, Arthur Wood	Spencer Corporation, Euro Machining

Section 2 Presentations

Advisor: Dr. John Lee

Location: ENG 401

Session will begin at 13:00

Presentation Time	Project Title	Team Members	Sponsor
13:10-13:40	Collapsible Cup Sealing and Insulation Refinement	Nico Alfaro, Sohan Christian, Xitlaly Garcia, Matthew Shurm	Jason Blum
13:40-14:10	Automated Avocado Peeler	Matthew Culaton, Vincent Lui, Matthew Teupel	
14:10-14:40	Restoration and Enhancement of a Ford Think Golf Cart	Matthew Abion, Jonathan Chiu, Justine Samson, Huy Tran, Rylan Tran	Dr. Raymond Yee; SJSU ME Department
14:40-14:50	- INTERMISSION -		
14:50-15:20	Motorized Object Detecting Walker for the Mobility Impaired	Meshi Shachaf, Daniel S. Ceideburg, Harreynish Gowtham, Aaron Francis Lerma	SJSU ME Department
15:20-15:50	Four-bar Linkage Knee Exoskeleton	Christian Javier Docena, Seheon Ham, Joshua McConnell, Jon Ouyang, Alexander Tom	Dr. Mojtaba Sharifi; thanks to Sanad Shabbar, Eric Kwan, and Khadjia Ayyaz
15:50-14:20	Smart Personal Mobility Vehicle - Front Suspension System	Craig Haley, Jonathan Novero, Nathan Ramos, Kourosh Sadrolashrafi	Dr. Raymond Yee; SJSU ME Department
16:20-16:30	SESSION CLOSURE		

Section 3 Presentations

**Advisor: Dr. Buff
Furman**
**Location:
Superway Design
Center**

Address & Instructions: 115 Terraine St., San Jose, CA. There is no entrance to the facility on that street. If you are coming off of Highway 87 at Julian St., turn right on Terraine St., then right on St. John St., and then right again on Notre Dame Ave (this street is a one-way in the northbound direction). Finally, turn right into the private parking lot through the gate with the chain link fence.

Presentation Time	Project Title	Team Members	Sponsor
13:30-14:00	Small Scale Demonstration Track - Vehicle Charging	Patrick Chiu, Michael Korens, Anton Loeb, Roman Ortiz, Nyalah Payne	Spartan Superway Core Team, Ron Swenson
14:00-14:30	Small Scale Demonstration Track - Structure	Jio Back, Thant Myat Win	Spartan Superway; Dr. Anthony Rossetti, Dr. Douglas Muntz, Vinh-Doan Thoi, Mike Parker, Kai Reh binder, Michael Kamas, Central Shops
14:30-15:00	Small Scale Demonstration Track - Solar Power and Energy Storage	William Tran, Anthony Truong	Spartan Superway
15:00-15:30	Small Scale Demonstration Track - Mechatronics	Brian LaBlanc, Brianna Liang, Israel Chavez	Spartan Superway
15:30-16:00	Motor Dynamometer for the Spartan Superway	Kiara Angelito Palominos, Alexis Corres Cruz, Rosa Martinez, Bryan Ngo	Spartan Superway; thanks to Dr. Furman and Greg White
16:30-17:00	Automated Wheelchair Frame Restraint System (Handicapable)	Sean Andre, Andres Medina, Raymond Ruan, Albert Sue	Spartan Superway
17:30-18:00	Automated Wheelchair Passenger Restraint System	Angel Andrade, Brandon Cattano, Nicholas Ho, Jose Puga	Spartan Superway

Section 4 Presentations

Advisor: Dr. Hussameddine Kabbani

Location: ENG 303

Presentation Time	Project Title	Team Members	Sponsor
09:00-09:30	Cooling High Power Dissipating AI Chips Using Refrigerant	Waheeb Mukatash, Marc Massalt, Merari Mejia Robles, Matthew Moscoso, Charlie Nino, Tyler Yang	SJSU ME Department; thanks to Dr. Kabbani, Kyle Meininger, and Lydie Rashel
09:30-10:00	Functional Material 3D Printer	Gray Kim, Madelyn Beckner, Maiken Pardon	Self-sponsored
10:00-10:30	3D Filament Recycler	Casper Li, ZiJian Mai, Tristan Huynh, Dylan Nguyen	Self-sponsored
10:30-11:00	Hyperloop Testing and Data Acquisition System	Simon Delos Sandos, Seungheon Lee, Joe Wan	Dr. Vimal Viswanathan
11:00-11:30	Advanced Storage Management System (ASMS)	Binh Nguyen, Thinh Pham, Dang Quang Bui, Andrew Pham, Wyatt Leuck	SJSU ME Department
11:30-12:00	Battery Cooling		
12:00-12:30	Gatling EM Launcher	Jerrod Bolden, Khoa Cao, Jason Chin, Tyler Erwin, Michael Kamas, Benjamin Lam, Eric Ling, Sean Mendez Laranga, Bhupinder Singh, Andy Tu	Autodesk, Matterhackers, Raspberry Pi, Zyltech Engineering

Section 5 Presentations

Advisor: Prof. James Mokri

Location: ENG 301

Presentation Time	Project Title	Team Members	Sponsor
09:00-09:30	Electric Vehicle Charge Robot	Ryan O'Driscoll, Maxwell Kawamoto, Daniel Yee, Matthew Melnykov, Abdullah Shahid, David Tran	Kevin Cameron
09:30-10:00	Concentrating Solar Power with High Temperature Thermal Energy Storage	Jesus Bueno, Jason Corona, Gagan Kataria, Igor Morozov, Huy Nguyen, Harwinder Singh	SJSU ME Department
10:00-10:30	Ice Thermal Energy Storage	Rodolfo Constantino, Arthur Garcia, Ryan Lui, Roland Nguyen, Alan Vuong, Patrick Zapanta	SJSU ME Department, self-sponsored
10:30-11:00	Compressed Air Energy Storage	Matthew Broyles, Ethan Ngo, Logan Olson, Austin Quach	SJSU ME Department
11:00-11:30	Waste Heat Recovery System to Generate Electricity	Kieron Conway, Jude Harvey Cruz, Daniel Fernandez, Spencer Guinther, Mohamed Moussaoui, Steven Vo	Golden Gate Mechanical, Inc.

Section 6 Presentations

Advisor: Dr. Syed Zaidi

Location: ENG 303

Presentation Time	Project Title	Team Members	Sponsor
13:00-13:30	Investigation and Characterization of Bifacial Solar Panels	Matthew Ard, Benjamin Ard	SJSU ME Department, IntelliScience Training Institute
13:30-14:00	Passive Water-Cooling Solar Panel	Liam Martin, David Molina, Vincent Tran	IntelliScience
14:00-14:30	Propeller Design & Testing Project	Gordon Guclu, Eric Nguyen, Manroop Singh, Hieu Tran	IntelliScience, SJSU ME Department, SJSU ASME
14:30-15:00	Wound Imaging for Plasma Medicine	Unurbayar Bayarsaikhan, Manuel Espindola, Eric Montoya, Nicholas Sandberg, Jorge Qunitero	IntelliScience Institute, SJSU ME Department
15:00-15:30	Continuous PET Bottle Recycler	Vincent Camtugan, Bryce Galbraith, Adhavan Tiruthani	Self-sponsored, SJSU ME Department
15:30-16:00	Rehabilitation Bio-Chair: Design, Development, and Operation	Broneil Betoshana, Kayyan Danesh, Aarmin Golbakhsh, Luis Mendez	Dr. Syed Zaidi, SJSU