

San José State University
 Department of Mechanical Engineering
 ME 195B Senior Design Project II
Student Conference Day Presentations
 Friday, May 10, 2019

Session 2: 9:00 AM – 12:00 PM, Room E325, Engineering Building

Advisor: Prof. Raymond Yee

Time	Project Title	Team Members	Sponsor
9:00 – 9:25	Arabic Coffee Machine	Maharshi Chitti Henry Nguyen Ernest Rodriques Brandon Schnuelle	Meshal Alshahrani
9:30 – 9:55	Universal Drone Delivery System	Carlo Aldana Issa Flores Peter Mack Andrew Mouzoya Aren Yeghissian-Kannien Joseph Zeni	Self
10:00 – 10:25	3D Printed Component Design for Heat Pipe	Jason Tam Srian Atluri Christine Castro	Jabil
10:30 – 10:55	Collapsible Cup for Coffee/Tea	Wenhui Li Jonathan Nguyen Truman Nguyen Armaun Taunk	Jason Blum
11:00 – 11:25	Powder Bed System	Mateo Benitez Juan Serrano Vincent Tran Michelle Wong	MolyWorks Material Corp.
11:30 – 11:55	6 DOF Calibration Target Positioning System	Semir Besic Joseph Brett Anthony Goyeneche Devin Huff Ryan Kelley Scott Lutes	Lawrence Livermore National Lab.

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Session 3: 9:00 – 3:30, **115 Terraine St. (Spartan Superway Design Center)**

Advisor: Prof. Burford Furman

Time	Project Title	Team Members	Sponsor
9:00 – 9:25	Spartan Superway – Full-scale Guideway	David Bunker Evelia Leyva	Superway, Master Metal
9:30 – 9:55	Spartan Superway – Bogie Integration	Nik Misfud Jason Ragar Brandon Tarter	Superway, SJSU A.S., Alan Steel
10:00 – 10:25	Spartan Superway – Steering and Braking	Joshua Morales Akashpreet Sandhu Jaspreet Singh	Superway
10:30 – 10:55	Spartan Superway – High-density Motor	Kristopher Kwandy David Nguyen Adhithyan Vaiyapuri Kevin Xie	Superway, SJSU A.S.
11:00 – 11:25	Spartan Superway – Wayside Power	Daniel Coaquira Ka Lau Tynan Winters	Superway, Orion BMS (Ewert Energy Systems), SJSU Tower Foundation, SJSU A.S., Howland Technologies, Maxwell Technologies, Turpo Manufacturing, SJSU Central Shop, Elithion Inc.
11:30 – 11:55	Spartan Superway – Full-scale Controls	Justin Guro Alan Kalarickal Alexander Krause	Superway
12:00 – 12:25	Spartan Superway – Half-scale Bogie	Oscar Balvaneda Karandeep Binner Hector Gomez Matthew Leal Karen Tang	Superway, Solarius

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Prof. Burford Furman section continues

12:30 – 1:30	L u n c h		
1:30 – 1:55	Spartan Superway – Small-scale Track	David Cabezas Brandon Chow Tyler Shearer	Superway
2:00 – 2:25	Spartan Superway – Small-scale Bogie	Logan Seitz	Superway
2:30 – 2:55	Spartan Superway – Small-scale Controls	Patrick Barrera David Mapapa	Superway
3:00 – 3:25	Spartan Superway – Solar Racking	Patrick Belisle Jordan Schultz Francisco Trejo	Superway

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Session 4: 8:30 AM – 12:00 PM, Room E341, Engineering Building

Advisor: Prof. Winncy Du

Time	Project Title	Team Members	Sponsor
8:30 – 8:55	Electrode Mapping of the Voltage Potential Around the Human Body and Influencing Factors	James Jimenez-Gordon (Team Lead) Mark Muendelein Aby Samuel Jeson Retumalta	Dr. Du
9:00 – 9:25	Teleoperated Robotics Laboratory	Alex Horwege (Team Lead) Zi Ming Tan	CSU-Laboratory Innovation Technology
9:30 – 10:25	Mobile Modular House	Grant Quan (Team Lead) Thomas Bui Michelle Espinoza Benjamin Ha Kirill Knyshev Long Le Phat Luong Taylor Memmott Thinh Nguyen Pedro Salcedo Phuc Tran	Home Depot (Lafayette); Home Depot (Story Road); ASME Rockwell Drywall; Lam Nguyen; Dr. Du
10:30 – 10:55	Heavy Lift Drone for Emergency Relief	Nick Hammond (Team Lead) Dominic Mutimer Fernando Casas Nishank Kuppa John Cruz Mark Siacotos Kyle Dunne	College of Engineering for the UAV Research Center; Therma
11:00 – 11:25	Powered Ankle Foot Orthosis	Miguel Ibarra (Team Lead) Seth Hutchinson Evan Dill	Walters & Wolf
11:30 – 11:55	Coyote Creek Flood Monitoring and Early Warning System	Raul Gonzalez (Team Lead) Luis Aguirre Ali Hosseinpur Andrew Donato	Microsoft Company

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Session 1: 1:00 PM – 5:00PM, Room E331, Engineering Building

Advisor: Prof. Raghu Agarwal

Time	Project Title	Team Members	Sponsor
1:00 – 1:25	Solar Panel Duster	Rommel, Danica Butler, Denise Bryson, Brian Marino, Nicholas Kim, Gabriel Rangaraj, Gautham	Dr. B Krishan
1:30 – 1:55	Solar and Wind Based Heat Exhaust System	Go, Anthony Kim, Do Wook Morales, Jason Nguyen, Christian Tran, Huy	Dr. B Krishan
2:00 – 2:25	Inferno Food Container	Maynard, Noah Muhammad, Ayad Alghamdi, Khaled Ivanova, Andrew	Self
2:30 – 2:55	Home/Office 3D Printer Filament Maker	Mosbrucker, Steven Figueroa, Frank Obillo, Norland Artiga, Erick Nguyen, Anthony Oh, Katie	Self
3:00 – 3:25	Mini-Baja SAE Final Drive	Orozco, Luis Kim, Christopher Cook, Lauren Hultsman, Robert	Mini-Baja Club
3:30 – 3:55	Formula SAE Drive Train Design	Johnson, Karl Kutney, Ryan Martinez, Abe Bernas, Albert Carmona, Pedro	Formula SAE Club

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Session 5: 1:30 PM – 5:00 PM, Room E341 , Engineering Building

Advisor: Prof. James Mokri

Time	Project Title	Team Members	Sponsor
1:30 - 1:55 PM	Biomass Fuel Synthesizer	Christian Lau Steve Lawrence Nawar Saleh W. Thapanangkun Yen Tu Mitchell Victoriano	San Jose State University Chemical Engineering Department Research Grant
2:00 – 2:25	Automated Gravel Bag Loader - GGM	David Carroll Alan Chew Efrain Escalante Dustin Lien Anthony Nguyen	Tom Burns, Golden Gate Mechanical (GGM)
2:30 – 2:55	Hybrid Electric Tricycle	Kevin Olson Chao Wu Mahyar Salehi Noah Horario Darwin Xu Jingzhou Chen	Dr. Fred Barez, Stephen Gomes Ted Moorhead Bicycle Express San Jose
3:00 – 3:25	VTa Transit Bus Rim Washing Machine	Jake Magee Benjamin Lagace Clayton Gjerstad Ivan Ayala Jose Olvera	Jay Petty, VTA Sorin Neagu, Independence High School Auto Tech
3:30 – 3:55	VTa Bus Brake Pad Measuring Device	Jared Lugo Joseph Melchor Dominic Moser Oscar Olide, Dillon Saw	Jay Petty, Santa Clara Valley Transportation Authority (VTA)
4:00 – 4:25	GET Autonomous Vehicle	Menson Li, Neil Laxamana Jaben Melville Don Robert Pornaras Nathan Srinivasan Joey Zhu	Global Electric Transport (GET), SJSU, SwiftNav, Velodyne, Google X

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Session 6: 1:30 PM – 5:00 PM, Room E343, Engineering Building

Advisor: Prof. Syed Zaidi

Time	Project Title	Team Members	Sponsor
1:30 - 1:55 PM	Assisted Bio Joint	Austin Huynh Isaac Rubio Hernandez Peara Thach	IntelliScience and Hastest Solutions Inc
2:00 – 2:25	Dielectric Barrier Discharge Plasma Jet Medical Device	Chris Alvarado Domingo Castro Chalini Ekanayake Sukhjap Purewal Shivam Singh	Plasma Innovations LLC And IntelliScience
2:30 – 2:55	Robotic Arm System to Operate a Plasma Jet for Wound Healing and Sterilization	Meng Cao Jianzhen Chen Pengkun Chen Xuwen Mao Yi Wang	Plasma Innovations LLC And IntelliScience
3:00 – 3:25	Investigation of Passive Cooling Techniques for a High-Power LED System	Vincent Souza Devin McKee Jose Pulido William Rafael Kevin Pinheiro	Hastest Solutions Inc and IntelliScience
3:30 – 3:55	Project Bhaskar: Passive Cooling Techniques for Building Integrated Photovoltaics	Josh Sanghvi Ramina Albazi Mara Leandro Rodrigo Henríquez Isaac Gendler	Berkeley National Lab
4:00 – 4:25	Precision Material Handling Interface PHMI i4.0	Jake Wood Shelby Hetrick Eric Rosenfeld	GCM, Silicon Valley
4:30 – 4:55	3D Traversing Mechanism for Characterization of a Wind Tunnel	Peeyusha Boorada Erin Bui Isaiah Gosiengfiao Stephen Wu	SJSU Department of Mechanical Eng and Hastest Solutions Inc