



# **SAN JOSÉ STATE UNIVERSITY**

**Mechanical Engineering Department**

**ME 195 Senior Project Conference  
Day Schedules**

**Date: May 13, 2022**

## Section 1 Presentations

**Advisor: Dr. Raghu Agarwal**

| <b>Presentation time</b> | <b>Project Title</b>                     | <b>Team Members</b>   | <b>Sponsor</b> |
|--------------------------|--|---|----------------|
| 9:00 pm –<br>9:30        | Automatic Dumpling Maker                 | Amol Sanghavi<br>Darren Lim<br>Mark Hughes<br>Julia Gosiengfiao<br>Eulix Chiu (Team Lead)<br>Ally Zhu | Self-Sponsored |
| 9:30 pm –<br>10:00       | FSAE Carbon Fiber Wheels                 | Jason Do (lead)<br>Allegra Robertshaw<br>Tiago Costa<br>Zach Abdallah<br>Sean Garcia                  | Self-Sponsored |
| 10:00 pm –<br>10:30      | Custom Speaker Driver                    | Jared Wang (Project Lead)<br>Robert Terhell<br>Michael Vu<br>Lee Osaki<br>Anastacia Rodriguez         | Self-Sponsored |
| 10:30 pm –<br>11:00      | Drag Reduction System - Formula SAE      | Scott Dunn<br>Jie Kai Toe<br>Ehsan Al-Agtash<br>Junlin Chen (Hugo)<br>Josue Garcia (Leader)           | Self-Sponsored |
| 11:00 pm –<br>11:30      | Surgical Care Assistant Robot (S.C.A.R.) | Jake Fulton<br>Dylan Domingo<br>Christian Pedrigal<br>Priscilla Tatmon                                | Self-Sponsored |

## Section 2 Presentations

**Advisor: Dr. Burford Furman**

| <b>Presentation Time</b> | <b>Project Title</b>    | <b>Team Members</b>   | <b>Sponsor</b>                     |
|--------------------------|-------------------------|---|------------------------------------|
| 1:00 pm – 1:30 pm        | SSW Central Chassis     | Daniel Basilio-Jimenez<br>Cameron Castro<br>Darren Dezewiecki<br>Huangyi Tan                | Spartan Superway                   |
| 1:30 pm – 2:00 pm        | SSW Lateral Stabilizers | Nikolas Bassett<br>David Bruan<br>Ngoc Dinh<br>Binh Nguyen                                  | Spartan Superway                   |
| 2:00 pm – 2:30 pm        | SSW Wheel Housing       | Jerrod Ankeny<br>Nicholas Dang<br>Justin Gualberto<br>Yann Lapnet<br>Shrikrishna Shivakumar | Spartan Superway                   |
| 2:30 pm – 3:00 pm        | SSW Suspension          | Adrian Cruz<br>Brian Gough<br>Cameron Mew<br>Salman Saeed<br>Eric Vu                        | Spartan Superway                   |
| 3:00 pm – 3:30 pm        | SSW Pod Sway            | Akoua Marie Emmanuella Andjui<br>Nghia Nguyen<br>Brandon Quan<br>Aboubacar Traore           | Spartan Superway                   |
| 3:30 pm – 4:00 pm        | SSW Track Profile       | Trang Dang<br>Aaron Keh<br>Andrew Truong<br>Kyle Yuke                                       | Spartan Superway                   |
| 4:00 pm – 4:30 pm        | SSW Track Supports      | Cory Cai<br>Simon He<br>Matthew Means<br>Jeremiah Nguyen                                    | Spartan Superway,<br>K&A Precision |

### Section 3 Presentations

**Advisor: Dr. Raymond Yee**

| <b>Presentation Time</b> | <b>Project Title</b>              | <b>Team Members</b>   | <b>Sponsor</b>                                     |
|--------------------------|-----------------------------------|---|--|
| 1:00 pm – 1:30 pm        | Tuned Mass Damper Design          | Antonio Huete<br>Cris Mendoza<br>Jack Weaver  | Ford Motor Company                                 |
| 1:30 pm – 2:00 pm        | Collapsible Cup Refinement Design | Jordan Malagon<br>Travis Southerland<br>Anthony Talingdan   | Jason Blum   |
| 2:00 pm – 2:30 pm        | Avocado Cutting Device Design     | Anh Nguyen<br>David Pokras<br>Nikolaus Robillos   | Dr. Raymond Yee                                    |
| 2:30 pm – 3:00 pm        | Collapsible Cup Refinement Design | Manuel Aguilar<br>Kameron Hsiung<br>Dat Tran  | Jason Blum   |
| 3:00 pm – 3:30 pm        | Avocado Cutting Device Design     | Daniela Buendia<br>Kim Hutain<br>Dong Hyan-Yi   | Dr. Raymond Yee                                    |
| 3:30 pm – 4:00 pm        | Personal Mobility Device          | Abubakr Abushanab,<br>Paras Kumar<br>Viet Nguyen<br>Andy Sanchez<br>Trevin Aguilar<br>Duong Nguyen<br>Austin Truong<br>Eric Zhang<br>Kendell Ayson<br>Bernard De Castro<br>Jose Garcia<br>Iqbal Singh | Lockheed Martin,<br>Stanley Yu, Dr.<br>Raymond Yee |

## Section 4 Presentations

**Advisor: Pf. James Mokri**

| <b>Presentation Time</b> | <b>Project Title</b>                                     | <b>Team Members</b>   | <b>Sponsor</b>  |
|--------------------------|--|---|---|
| 1:30 pm – 2:00 pm        | Electric Vehicle Charge Bot – Mechanical Team            | Hoang Truc Nguyen<br>Nobumatsu Kozakai<br>Hao Zhe Chan<br>Neeraj Nair<br>Jose Torres Gonzalez<br>Dontario Bevely          | Kevin Cameron,<br>Lockheed Martin                       |
| 2:00 pm – 2:30 pm        | EV Charge Bot B – Electrical Team                        | Isaac Ramirez<br>Sepehr Pazoki<br>Joseph Lacey<br>Tan Nguyen<br>Kyle Cueto<br>Joshua Tung<br>Dylan Robinson<br>Mason Sage | Kevin Cameron,<br>Lockheed Martin                       |
| 2:30 pm – 3:00 pm        | Bagger Bot – Automated Sand/Gravel Bag Filling Apparatus | Jake Suba<br>Niels Hofmeijer<br>Abner Vadil<br>Adriel Quilatan<br>Thuan Nguyen<br>Nicholas Lee                            | Tom Burns,<br>Golden Gate<br>Mechanical,<br>Santa Clara |
| 3:00 pm – 3:30 pm        | Low Cost Medical Ventilator                              | Elhadi Sofiane Hamama<br>Tara Joshi<br>Jeremy LaPenes<br>Marcus Salazar<br>Jacky Guan<br>Dilsher Singh                    | Ricardo Barbaran,<br>GET                                |
| 3:30 pm – 4:00 pm        | Advanced Driver Assistance System                        | Matan Blum<br>Isaac Tello<br>Han Huynh<br>John Hong<br>Andy Luong<br>YuJen Chen   | Sorin Nague,<br>Independence<br>High School San<br>Jose |

## Section 5 Presentations

**Advisor: Dr. Syed Zaidi**

| <b>Presentation Time</b> | <b>Project Title</b>   | <b>Team Members</b>   | <b>Sponsor</b>                                       |
|--------------------------|--|---|--|
| 1:00 pm – 1:30 pm        | Assistive Bionic Knee Joint Brace  | Patrick Fusilero<br>Andres Reyes<br>Rodrigo Trejo   | Hastest Technologies,<br>IntelliScience              |
| 1:30 pm – 2:00 pm        | Automated Knee Brace Biochair  | Faizan Nomani<br>Linh Anh   | IntelliScience                                       |
| 2:00 pm – 2:30 pm        | Investigation of a Novel Technique to Improve the 3D-Printed Parts Quality | Bridgette Carpiz<br>Gabriel Rodriguez<br>S Hassaan Mahmood<br>Justin Nyam<br>Zachary Kok                | IntelliScience,<br>Mechanical Engineering Department |
| 2:30 pm – 3:00 pm        | Dielectric Barrier Discharge Plasma Jet for Bacteria Mitigation            | Marcus Hernandez<br>Justin Ramos<br>Emmanuel Acosta<br>Dani Habtom                                      | IntelliScience                                       |
| 3:00 pm – 3:30 pm        | Design of Low-Cost Ventilator for Production Setting                       | Keian Castro<br>Omar Abdelhadi<br>Elaine Joyce Buron<br>Kenny Luong<br>William Ly<br>Brandon Visitacion | Global Electric Trans (GET)<br>San Jose              |

Section 6 Presentations

Advisor: Pf. Ed Cydzik

| Presentation Time | Project Title             | Team Members   | Sponsor   |
|-------------------|---------------------------|--|---|
| 1:00 pm – 1:30 pm | Urban Farming A           | Haider Allawi<br>Caroline Bowman<br>Rajan Uppal<br>Isabella Schmidt                    | N/A   |
| 1:30 pm – 2:00 pm | Bike Conversion           | Andrew Ackley<br>Germain Munoz Campos<br>Evelyn Aguayo<br>Joshua Tambaum<br>Zhaobin Yu | N/A   |
| 2:00 pm – 2:30 pm | Urban Farming B/Shrubbers | Ryan Sands<br>Summer Selness<br>Gustavo Garay  | Garden to Table<br>Silicon Valley   |
| 2:30 pm – 3:00 pm | Ocean Nutrient Analyzer   | Andrew Silva<br>Tracy Hunter<br>Timothy Ly   | SJSU Moss<br>Landing Marine<br>Lab  |
| 3:30 pm – 4:00 pm | Greenhouse                | Erik Chavez<br>Melad Faizi<br>Jovanie Parra<br>Edgar Santos-Quiroz                     | César E. Chávez<br>Community<br>Action Center,<br>Kaitlyn Meyer,<br>Matthew Spadoni |