| CLASS 295B - FALL 2022 - 1 hour | | | | |
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| **STUDENT NAME** | **Chair** | **Committee** | **Presentation Date and Time** | **PROJECT** |
| Allam,Armin Joseph | Armani | Vimal Viswanathan, Raymond Yee | R 12/08_ 13:00-14:00 | Creating Composite Materials Using Ceramic On-Demand Extrusion |
| Ament,Geoffrey | Bashash | Burford Furman, Farid Haddad | W 12/07_ 11:00-12:00 | Utilizing Object Detection and Haptic Feedback to Control the Position of a Pan-Tilt Camera |
| Artiga,Erick | Viswanathan | Syed Zaidi, Lin Jiang | R 12/08 _11:00 - 12:00 | Design of Robotic Arm and Gripper for Robotic Trash Recycler |
| Cai,Kaiming | Yee | Vimal Viswanathan, Eduardo Chan | F 12/09 _17:00-18:00 | Structural Optimization of the Personal Mobility Vehicle Chassis for Urban Transport |
| Fang,Zichen | Armani | Vimal Viswanathan, Raymond Yee | R 12/08_ 1400-1500 | Ceramic On-Demand Extrusion and Mechanical Characterization of Silicon Carbide |
| Garcia,Yarovit | Yee | Lin Jiang, Mojtaba Sharifi | R 12/08_15:30-16:30 | Wearable Health Monitoring Device for Hypertension and Pyrezia Detection from the Wrist |
| Klem,Aymon | Viswanathan | Maria Chierichetti, Ernest Thurlow | R 12/08_ 12:00-13:00 | Design and CFD Analysis of a Diffuser Attached to a Subsonic Pod-Train |
| Li,Yuying | Jiang | Saeid Bashash, Mojtaba Sharifi | F 12/09_16:00-17:00 | Development of a Bio-Inspired Breast Pump Prototype with Soft Robotics and Thermal Control System |
| Luc, Ryan | Viswanathan | Syed Zaidi, Khalil Estell | F12/09_15:00-16:00 | SJSU Recycling Robot Base Design and Construction |
| Lyman,Milani Elena | Viswanathan | Matthew Leineweber, Arlene Spilker | M 12/05 _15:00-16:00 | Design and Fabrication of Shoulder, Neck Joints, and Injury Feedback System for Infant Positioning Mannequin |
| Pfeiffer,Claire | Yee | James Mokri, Igor Tyukhov | W12/07_ 13:00-14:00 | Feasibility Study of a Solar Panel System for a Personal Mobility Vehicle Application for Urban Transport |
| Tracey,Christopher William | Furman | Saeid Bashash, Ron Swenson | W 12/7 _09:00-10:00 | Development of an Algorithm for Controlling Lithium-Ion Batteries and Supercapacitors for an Electric Vehicle |
| Tran,Vincent | Bashash | Lin Jiang, Burford Furman | F 12/09_ 14:00-15:00 | Automatic Stabilizer Controller for an Electric Ducted Fan Powered Hoverboard |
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| **CLASS 295A - FALL 2022 - 30 mn** | | | | |
| **STUDENT NAME** | **Chair** | **Committee** | **Presentation Date and Time** | **PROJECT** |
| Ahir, Hinal | Viswanathan | Syed Zaidi, Ken Youssefi | W 12/07_3:00-13:30 | Design and Optimization of the Braking System and Suspension System for a Small Scale Hyperloop Pod |
| Benz, Ross K | Bashash | James Mokri, Syed Zaidi | **R 12/08_10:30-11:00** | Construction of Acceleration Limit Surfaces Modified with Real-Time Data for a Formula SAE Vehicle |
| Cheng, Tiancheng | Sharifi | Lin Jiang, Vimal Viswanathan | M 12/05_14:30-15:00 | Development of an Assistive Ankle-Foot Exoskeleton |
| Divekar, Anoop Bhalachandra | Viswanathan | Lin Jiang, Ken Youssefi | F 12/09_13:30-14:00 | Design and Development of an RC Multi-Terrain Rover |
| Doan, Dylan | Armani | Vimal Viswanathan, Ken Youssefi | F 12/09_13:00-13:30 | Improving Ceramic On-Demand Extrusion Through Machine Learning |
| Edwards, Benjamin | Kazemifar | Ali Tohidi, Dr. Jun-Sik Lee | W 12/07_16:30-17:00 | TRANSIENT CFD ANALYSIS OF A LIQUID HELIUM CRYOSTAT FOR USE IN ULTRA HIGH VACUUM TO COOL TEMPERATURE SAMPLE MATERIALS |
| Esquivel Patricio, Jose | Sharifi | Lin Jiang, Matthew Leineweber | F 12/09_11:00-11:30 | Hardware and Software Development of an Assistive Lower-Limb Exoskeleton |
| Huynh, Jenny Ngoc Thu | Jiang | Winncy Du, Raymond Yee | R 12/08_17:00-17:30 | Design a Modular Tactile End Effector for a Wireless Teleoperated Robotic System with Haptic Feedback |
| Kitazumi, Mitchell T | Yee | Winncy Du, Dave Putnam | W 12/07_12:30-13:00 | Optimization of a Gravity Offload System for Large Deployable Structures using a Motorized Control System |
| Ng, Mel | Jiang | Amir Armani, Matthew Leineweber | F 12/09_10:00-10:30 | Design of a Portable Oral Feeding Training Bottle for Effective Milk Delivery |
| Nguyen, Tai | Barez | Ernest Thurlow, James Mokri | R 12/08_09:00-9:30 | Design of Battery Thermal Management System for Fast Charging of Electrical Vehicles at High Temperatures |
| Nguyen, Thinh | Viswanathan | Lin Jiang, Ken Youssefi | F 12/09_09:30-10:00 | Design and Manufacturing of a Multi-Terrain Unmanned Ground Vehicle |
| Patil, Sagar Sanjeev | Yee | Feruza Amirkulova, Ken Youssefi | R 12/15_15:30-16:00 | Development of an Onboard Deep Learning System for a Smart Personal Mobility Vehicle for Urban Transport |
| Rivera,Diego Martin Leocadio | Sharifi | Lin Jiang, Raymond Yee | R 12/08_16:30-17:00 | Design and Fabrication of a Wearable Robotic Knee Exoskeleton |
| Rodrigues, Ernest James | Furman | Ken Youssefi, Ron Swenson | W 12/07_10:30-11:00 | Curriculum Development and Dynamic Analysis Comparison of SolidWorks Motion and ANSYS Motion |
| Seawright, Tyler Austin | Furman | Amir Armani, Paul Yamasaki | W12/07_13:00-13:30 | Design of an Optical Poynting Stability Test Bench and Remote Spectroscopic |
| Shaik Vadla, Mahammad Khalid | Viswanathan | Feruza Amirkulova, Mahima Agumbe Suresh | M 12/12_13:00-13:30 | Online Product Review Analysis to Automate the Extraction of Customer Requirements |
| Shrestha, Dhurba | Sharifi | Vimal Viswanathan, Amir Armani | M 12/05_10:30-11:00 | Design and development of the hip components of the lightweight lower limb exoskeleton |
| Sidletsky, Stephen | Amirkulova | Michel Pharand, Burford Furman | R12/08_09:00-09:30 | Design and Optimization of Tuned Mass Dampers to Improve Settling Time of a Precision Optical System |
| Thieu, Alex | Jiang | Mojtaba Sharifi, Feruza Amirkulova | R 12/08_17:30-18:00 | Implementation of Haptic Feedback and Virtual Reality in a Smart Glove for use in Rehabilitation |
| Tran, Phuc Bao | Bashash | Mojtaba Sharifi, Lin Jiang | T 12/06_14:00-14:30 | High-Precision Position Control of a Rotary Flexible Link |
| Vivanco, Robert Michael Smith | Armani | Feruza Amirkulova, Matthew Aubrey | F 12/09_09:00-09:30 | AN EFFICIENT REPRESENTATION TECHNIQUE FOR FUNCTIONALLY GRADED MATERIALS USING UNSTRUCTURE CONTROL POINTS |
| Wang, Xing | Yee | Eduardo Chan, Ernest Thurlow | F 12/09_18:00-18:30 | CFD Simulation and Fatigue Evaluation of Collapsible Cups for Hot and Cold Beverages |
| Wong, Devin | Jiang | Mojtaba Sharifi, Winncy Du | F 12/09_13:00-13:30 | Bio-Inspired Robotic Breastfeeding Simulator for Mimicking Infant Oral Motion and Milk Extraction |
| Wong, James | Bashash | Syed Zaidi, James Mokri | R12/08_14:00-14:30 | Enhanced torque distribution through Tire Learn and degradation data |
| Xie, Kevin | Furman | Vimal Viswanathan, Stas Tiomkin | W 12/07_14:00-14:30 | Design of an Adaptive Cruise Control System with Stop and Go Functionality for Spartan Superway |
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| **CLASS 299 I - FALL 2022** | | | | |
| **STUDENT NAME** | **Chair** | **Committee** | **Presentation Date and Time** | **THESIS** |
| Cervantes, Antonio | Tohidi | Farzan Kazemifar, Adam Kochanski | M 12/05_13:00-13:30 | Numerical Modeling of Firebrand Transport by Wildfire Plume |
| Kawa, Tamara | Lee | Lin Jiang, Anand Ramasubramanian | R 12/8_12:00-12:30 | The Impact of Platelets on the Viscoelasticity of Blood Clots |
| Perry, Montgomery | Tohidi | Crystal Han, Farzan Kazemifar | F 12/09_12:00-12:30 | X-Ray Computed Tomography of Surface Fuel Morphology |
| Singh, Vijethvardhan | Viswanathan | Farzan Kazemifar, Syed Zaidi, | R 12/08_16:00-16:30 | Passive Temperature Reduction Techniques in Electric Vehicle Batteries |
| Simmons, Samuel | Kazemifar | John Lee, Crystal Han | R 12/08_10:30-11:00 | MICRO-SCALE LASER-INDUCED FLUORESCENCE THERMOMETRY FOR MULTIPHASE FLOW IN POROUS MEDIA |
| Zhao, Yirong | Jiang | Winncy Du, Mojtaba Sharifi | F 12/09_11:30-12:00 | End Effector Path Planning based on Adaptive Fuzzy Neural Network Control for a Teleoperated Robotic Needling Insertion System |