

CLASS 295B - SPRING 2022 - 1 hour				
STUDENT NAME	Chair	Committee	Presentation Date and Time	PROJECT
Andrade, Vanessa Leigh	Yee	Vimal Viswanathan, Amir Armani	T 05/17_ 12:00 -13:00 ; Zoom	Design and Fatigue Analysis of O-ring Seals Within a Collapsible Cup for Hot and Cold Beverages
Bejaoui, Takoua El	Bashash	Wencen Wu, Stas Tiomkin *	M 05/23 1200-1300 ; Zoom	Optimizing Gps Tracking For Space Rover Via Kalman Filtering
De La Rosa-Moreno, Amaris	Armani	Saied Bashash, Vimal Viswanathan	F 05/20_10:00-11:00 ; Zoom	Defect Detection and Closed-Loop Feedback Using Machine Learning to Improve Additive Manufacturing
Gautam, Anmol	Bashash	Jae Wan Park, Mohamed Badawy *	F 05/20 1100-1200 ; Zoom	Modeling the Dynamic Response of second-life Electric vehicle Batteries using Equivalent Circuit Methods
Hoang, Long	Barez	Fariah Mahzabeen *, Yun Wang *	R 05/19 1330-1430 ; Room IS 108	Design, Development, and Fabrication of a Personal Wellness Device to Monitor and Improve Antioxidant Concentration in Skin
Kadiwala, Sagir	Amirkulova	Amir Armani, Ozgur Keles	F 05/20 1300-1400 ; Zoom	Designing Anisotropic Pentamode Structures using Topology Optimization Methods
Khasgiwala, Rohan	Viswanathan	Kouros Youssefi, Feruza Amirkulova *	R 05/19 1200-1300 ; Zoom	Developing a Machine Learning Algorithm to Improve Finite Element Analysis
Li, Wenhui	Barez	Saeid Bashash, Rushabh Desai	R 05/19 14:30-15:30 ; Zoom	Development of an Autonomous Food Delivery Robot in a Restaurant
Liu, Yang	Furman	Ron Swenson, Eduardo Chan	F 05/20 1830-1930 ; Zoom	Analysis and Optimization of Wheel-Guideway Interface for SSW Bogies
Machado, Michael David	Viswanathan	Burford Furman, Syed Zaidi *	R 11:00 -12:00 ; Zoom	Design and simulation of a single-level bicycle brake with hydraulic pressure proportioning to minimize stopping distance.
Meszaros, Shawn Rocky	Bashash	Neyram Hemati, Mohamed Badawy *	W 05/18 18:30-19:30 ; Zoom	Modeling, Efficiency Analysis, and Control of the Regenerative Braking System in Electric Vehicles
Murphy, Jessica	Barez	Eduardo Chan, Saied Bashash	M 05/23 1800-1900 ; Zoom	Designing and Prototyping a Self-Contained Health Monitoring Solution for Use in Patient Homes
Pham, Hugh Gia	Bashash	Jae Wan Park, Mohamed Badawy *	F 05/20 12-1300 ; Zoom	Real-time State of Health Estimation Algorithm for Repurposed Lithium-Ion Batteries
Sario Perez, Rafael	Furman	Saeid Bashash, Ron Swenson	F 05/20 17:30-18:30 ; Zoom	Hub Motor Design for Automated Transit Network
Shetty, Shahil	Barez	Feruza Amirkulova, Vlad Ionescu	W 05/18 07:30-08:30 ; Zoom	Active Noise Cancellation System to Reduce Vehicle In-Cabin Noise
Shinn, Lauren Elizabeth	Barez	Winifred Schultz-Krohn *, Amer El-Hage	W 05/18 10:30-11:30 ; Room IS 108	Effects of Underwater Activities on Bone Strength
Tostado, Ezequiel	Furman	Ron Swenson, Vimal Viswanathan	W 05/18 09:30-10:30 ; Zoom	Automated Wheelchair Restraint System for Rapid Transit Vehicles
CLASS 295A - SPRING 2022 - 30 mn				
STUDENT NAME	Chair	Committee	Presentation Date and Time	PROJECT
Allam,Armin Joseph	Armani	Vimal Viswanathan, Raymond Yee	W 05/18 14:00-14:30 ; Zoom	Creating Composite Materials Using Ceramic On-Demand Extrusion
Ament,Geoffrey	Bashash	Burford Furman, Farid Haddad	F 05/13 9:30-10:00 ; Zoom	Utilizing Object Detection and Haptic Feedback to Control the Position of a Pan-Tilt Camera
Artiga,Erick	Viswanathan	Syed Zaidi, Lin Jiang	T 05/17 9:00-09:30 ; Zoom	Design of Robotic Arm and Gripper for Robotic Trash Recycler
Cai,Kaiming	Yee	Vimal Viswanathan, Eduardo Chan	W 05/18 1830-1900 ; Zoom	Structural Optimization of the Personal Mobility Vehicle Chassis for Urban Transport
Fang,Zichen	Armani	Vimal Viswanathan, Raymond Yee	T 05/17 13:00-13:30 ; Zoom	Ceramic On-Demand Extrusion and Mechanical Characterization of Silicon Carbide
Garcia,Yarovit	Yee	Lin Jiang, Mojtaba Sharifi	F 05/20 12:30-13:00 ; Zoom	Wearable Health Monitoring Device for Hypertension and Pyrexia Detection from the Wrist
Herrera,Alexander	Furman	Amir Armani, Ron Swenson	F 05/20 1400-1430 ; Zoom	Investigation into the Use of Concrete for Automated Transit Network Guideways
Holdsworth,Colin Hale	Viswanathan	Raymond Yee, Periklis Papadopoulos	F 05/20 1430-1500 ; Zoom	Mechanical Design and Analysis of an Electrically-Powered Levitating Hoverboard
Hung,Yuh-Hsin	Barez	Ernest Thurlow, James Mokri	T 05/17 11:00-11:30 ; In person_IS 108	Hybrid Cooling Method with Active Air Cooling and Indirect Liquid Cooling for Lithium-Ion Battery
Klem,Aymon	Viswanathan	Maria Chierichetti, Ernest Thurlow	R 05/19 1400-1430 ; Zoom	Design and CFD Analysis of a Diffuser Attached to a Subsonic Pod-Train
Li,Yuying	Jiang	Saeid Bashash, Mojtaba Sharifi	R 05/19 13:00-13:30 ; Zoom	Development of a Bio-Inspired Breast Pump Prototype with Soft Robotics and Thermal Control System
Lyman,Milani Elena	Viswanathan	Matthew Leineweber, Arlene Spilker	R 5/19 1300-1330 ; Zoom	Design and Fabrication of Shoulder, Neck Joints, and Injury Feedback System for Infant Positioning Mannequin
Naredia,Tejasai	Bashash	Mojtaba Sharifi, Lin Jiang	F 05/20 13:00-13:30 ; Zoom	Implementation of DC Motor Control and Image Processing to Balance an Inverted Pendulum
Pfeiffer,Claire	Yee	James Mokri, Igor Tyukhov	T 05/17 18:00-18:30 ; Zoom	Feasibility Study of a Solar Panel System for a Personal Mobility Vehicle Application for Urban Transport
Seto,Lauren	Tohidi	Alejandro Garcia, David Wagner	F 05/20 09:00-09:30 ; Zoom	CFD-DEM Applications in Discerning Firebrand Deposition Patterns to Determine Spot Fire Ignition Potential
Tran,Vincent	Bashash	Lin Jiang, Burford Furman	R 05/19 10:00-10:30 ; Zoom	Automatic Stabilizer Controller for an Electric Ducted Fan Powered Hoverboard
CLASS 299 I/II - SPRING 2022				
STUDENT NAME	Chair	Committee	Presentation Date and Time	THESIS
Qiu, Cheng	Amirkulova	Ali Tohidi, Ozgur Keles	R 5/19 14:00-14:30 ; Zoom	Pentamode Metamaterial Design via Wave Stimulation and Machine Learning