

MSME Project/Thesis Presentation Schedule				
CLASS 295B -Spring 2024- 1 hour				
STUDENT NAME	Chair	Committee	Presentation Date and Time	PROJECT
Benavides,Gerson	Armani	Mojtaba Sharifi, Lin Jiang	T 05/14, 10:00-11:00	Integrating a Second Extruder into the Ceramic On-Demand Extrusion System
Martinez,Abraham	Armani	Raymond Yee, Eduardo Chan	W 05/15, 18:00-19:00	Orientation Optimization of 3D Printed Superalloys via Finite Element Analysis
Horwege,Alex	Armani	Eduardo Chan, Brandon Holm	W 05/15, 17:00-18:00	Impact Response of Additively Manufactured Lattice Structures
Chen, Kevin	Barez	Ernest Thurlow, Hussam Kabbani	T 05/14 13:30-14:30	Influence of Structural Parameters on Heat Pipe Thermal Management System for Cylindrical Battery Cells
Urena,Javier	Bashash	Neyram Hemati, Mojtaba Sharifi	T 05/21, 18:00-19:00	Energy Management of DC Microgrids with Maximum Power Point Tracking Control
Solorio,Karina	Bashash	Mojtaba Sharifi, Neyram Hemati	T 05/21, 19:00-20:00	A Comparative Study of Controllers for Flexible, Non-minimum Phase Robotic Manipulators via Simulation and Experimentation
Ayele, Beniam	Bashash	Winncy Du, Lin Jiang	T 05/21, 15:00-16:00	EV Battery Cycler with Programmable Charging Protocol Futures
Traore,Aboubacar	Han	John Lee, Hussam Kabbani	T 05/21 /24 14:00-15:00	Development of single particle loading device for ITP extraction of single-cell RNA and DNA
Banzon,Angelo	Jiang	Mojtaba Sharifi, Saeid Bashash	T 5/21 T 16:00-17:00	Model Reference Impedance Controller of a Tele-robotic System for Upper Arm Physical Therapy
Saeed, Salman	Jiang	Saeid Bashash, Mojtaba Sharifi	W 05/15 _15:30-16:30	Tele-surgical Vision Precision: Computer Vision Enhanced End-Effector Manipulator
Johnson,Karl	Jiang	Saeid Bashash, Mojtaba Sharifi	W 05/15, 17:00-18:00	Improving Infant Feeding Success Rate using an Artificial Intelligent controlled Oral Motor Training Tool
Kwan,Eric Chi Jong	Sharifi	Saeid Bashash, Lin Jiang	R 05/16, 15:00-16:00	Adaptive Intelligent Controller for a Lower Limb Exoskeleton with Personalized Locomotion
Chau,Tiffany	Sharifi	Eduardo Chan, Josh Nelson	F 05/17, 18:00-19:00	A New Structural Design, Mechanical Analysis, and Fabrication of a Lightweight Robotic Walker
Chen, (Hugo) Junlin	Sharifi	Amir Armani, Ken Youssefi	F 05/17, 11:00-12:00	Structural Design and Fabrication of a Lower Extremity Exoskeleton Prototype
Truong,Andrew Dang Quy	Sharifi	Amir Armani, Raymond Yee	R 5/16, 16:30-17:30	Design and Fabrication of an Upper Limb Exoskeleton for Shoulder and Elbow Assistance with Four Actuated DoFs
Knesek,Zachary	Sharifi	Saeid Bashash, Burford Furman	R 5/16, 14:00-15:00	Intelligent Control of Lower Limb Exoskeleton Utilizing Adaptive Central Pattern Generators and Reinforcement Learning With Divergent Components of Motion for
Vanparia,Avadh	Sharifi	Saeid Bashash, Burford Furman	R 5/16, 10:00-11:00	Motion Planning and Motor Control Using Image Processing and LiDAR Sensing for a Robotic Walker
Schmidt,Troy	Sharifi	Saeid Bashash, Winncy Du	R 05/16, 12:30-13:30	Control of Lower-Limb Exoskeleton Stability Using Reinforcement Learning and Ankle Strategy
Portillo,Perla	Sharifi	Raymond Yee, Amir Armani	R 05/16, 18:00-19:00	Synergy Based Design Mechanism for Activating Movements on Three Groups of Fingers in Hand Exoskeleton
Makwana,Harshal	Sharifi	Amir Armani, Raymond Yee	R 5/16, 11:00-12:00	Design, Integration, and Development of the Suspension and Motorized Rear Wheel Drive System for a New Robotic Walker
Nguyen,Andrew	Viswanathan	Bryan Asuncion, Amir Armani	F 05/17, 10:00-11:00	Shutter Blade Curtain Redesign with 3D Printable Compliant Mechanism Methodologies
Nguyen, Anh Huy	Yee	Burford Furman, Crystal Han	W 05/15_13:30-14:30	Prototype Vest with Head Protection Airbag and Accelerometer-Based Fall Detection System for Senior Individuals with Balance Impairments
CLASS 295A - Spring 2024 - 30 mn				
STUDENT NAME	Chair	Committee	Presentation Date and Time	PROJECT
Peters, Anthony Michael	Bashash	Neyram Hemati, Burford Furman	Tu 05/14, 18:00-18:30	Environmentally Adaptive Cruise Control in Autonomous Vehicles that Imitate Human Behavior
Duong, Kiet Tuan	Jiang	Vimal Viswanathan, Syed Zaidi	F 05/17, 13:00-13:30	Adaptive Controls Algorithm Improvement and Implementation for an Assistive Bionic Joint Knee Brace for Leg Muscle Rehabilitation
Patel, Meet	Jiang	Gaojian Huang, Raymond Yee	F 5/17, 11:30-12:00	Enhancing Human-Machine Interactive SAE Level-4 Autonomous Driving using Tactile Augmented and Cognitive Exoskeleton Gloves
Sharp, Shane	Jiang	Gaojian Huang, Raymond Yee	W 5/15, 11:00-11:30	Monitoring Brain Waves for Mind Wandering and Modeling Cognitive Metrics for Human-in-the-Loop Autonomous Driving
Wang, Emily	Jiang	Winncy Du, Li Jin	Thursday 5/23, 09:30-10:00	Immersive Human-Robot Interaction for Upper Limb Rehabilitation through Multimodal Sensing and Haptic Feedback
Sun,Katie Shu	Jiang	Feruza Amirkulova, Mojtaba Sharifi	T 5/14, 12:00-12:30	Teleoperated Robot Manipulation Using Fuzzy Logic Modeling and Control
Fountain, Joshua Ryan	Kazemifar	Saeid Bashash, Crystal Han	T 05/14 10:00-10:30	Developing Energy Models for Commercial and Industrial Facilities
Ayyaz, Khadija	Sharifi	Saeid Bashash, Wencen Wu	T 5/14, 9:30-10:00	Adaptive CPG With ZMP Strategy for Intelligent Control of a Hip-Knee Exoskeleton
Unnikrishnan, Ashwin	Sharifi	Saeid Bashash, Burford Furman	W 05/15, 16:30-17:00	Gait planning using Dynamic Movement Primitives (DMP) and impedance-based control for lower limb exoskeletons
Desai, Jagrut Jaishil	Yee	Ernest Thurlow, Varun Mathur	R 05/16, 14:00-14:30	CFD analysis of a composite material drone with a 3-axis rotating mechanism
Nopwaskey, Nicholas	Yee	Amir Armani, Maria Chierichetti	R 05/16, 10:00-10:30	Structural analysis and development of a 2-axis quadcopter motor mechanism using carbon fiber polymer composites.
CLASS 299 I - FALL 2023				
STUDENT NAME	Chair	Committee	Presentation Date and Time	THESIS
Suski, Matthew	Lee	Dahyun Oh, Min Hwan Lee	JL will schedule	Effect of Filler Particles on the Conductivity of a Polymer Electrolyte during Compression Loading through Stress Field Evaluation
Schweizer, Alexander Yamada	Lee	Anand Ramasubramanian, Crystal Han	JL will schedule	Effects of Microgravity on the Dynamic Response of a Closed-Loop Perfusion System