

Master of Engineering Capstone Showcase

Wednesday, May 3rd 2017
10:30am - 6:15pm
UC Berkeley, Shires Hall
2451 Ridge Road

Start	End	Classroom A	Classroom B	Denniston Commons	Shires 211	Shires 311	Shires 314
Track Name		Data Science	BIOE	Product Design / BIOE	Advanced Manufacturing	Electronics & Advances in BIOE	Infrastructure / Testing / Transportation
10:30 AM	10:50 AM	<u>Data-Driven Management of Building Resources Team A</u>	<u>Prevention of Early Breastfeeding Cessation</u>	<u>In Vivo T-cell Tracking with MPI to Optimize Cancer Immunotherapy</u>	Advanced Manufacturing Processes	<u>Ion Beam Processed High-Performance Thermoelectric Materials</u>	<u>Advanced Technologies for Complete Streets</u>
10:55 AM	11:15 AM	<u>Data-Driven Modeling of Energy Consumption on UC Campus</u>	<u>Microresonant Catheter</u>	<u>Adaptive Ankle Support System</u>	<u>Improving Reliability of 3D Printed Materials in Biomedical Applications</u>	<u>Scaling up Deep Learning on Clusters</u>	<u>What will happen when the government loses control of mobility?</u>
11:20 AM	11:40 AM	<u>Data Analytics to Increase Energy Efficiency of Buildings</u>	<u>Synthesis of Endosomal Disruptors</u>	<u>Wearable Bioelectronics</u>	<u>Design of New 3-D Printer Inks</u>	<u>Understanding Deep Learning through Visualization</u>	<u>Managing Traffic Congestion in Travel Corridors</u>
11:45 AM	12:00 PM		<u>Zenflow Spring Implant: Encrustation Study</u>	<u>Ultrathin Protective Overcoat for Heat-Assisted Magnetic Recording</u>	<u>Graphene Multisensor</u>	<u>Special Absorption Rate Limit for Magnetic Particle Imaging</u>	<u>Measurement and Evaluation of Wavy Flow Around Di-Hull System</u>
12:05 PM	12:20 PM		<u>Lymphodema Model</u>	<u>Smartphone Based Hematology</u>	BioMEMS	<u>MPI For Rapid Test</u>	
LUNCH 12:30-1:30PM							
Track Name		Data Science	BIOE	Product Design	Advanced Manufacturing/Energy	Electronics & Computers	Infrastructure / Testing / Transportation
1:40 PM	2:00 PM	<u>Machine Learning and Natural Language Processing (NLP) for Patent Block Prediction</u>	Diagnosing Rheumatic Heart Disease in Developing Economies	<u>Controls for Assistive Robots</u>	<u>Tool and Process Design for Recycling and Remanufacturing of Li-ion Batteries</u>	<u>Simulating Spectrum Access Systems</u>	<u>Benefits of Satellite Navigation to U.S. Airport using GBAS</u>
2:05 PM	2:25 PM	<u>Machine Learning Classifier for Patent Grant Prediction</u>	Microfluidic Cell Analysis	<u>12-Bar Tensegrity Soft Robot for NASA Missions</u>	<u>Automating Workflow from CAD to Control</u>	<u>Vision Correcting Displays</u>	<u>S2UV: Supermaneuverable Unmanned Underwater Vehicle</u>
2:30 PM	2:50 PM	<u>Machine Learning for Patent Litigation (MLPL)</u>	<u>Improved Egg Retrieval</u>	<u>6-Bar Tensegrity Robot for Space Exploration</u>	<u>Gridwatch</u>	<u>Modern High-Speed Link Design</u>	<u>Water Quality Assessment Database: the PAX SmartSystem(TM) Technology (Team 1)</u>
2:55 PM	3:15 PM	<u>Patent Impact on Competitors</u>	Translational Approaches to Rejuvenation	<u>Laika (ULTRA Spine)</u>	<u>Micro Modular Reactor as part of a distributed grid</u>	<u>Prescriptive Analytics for Cyber Security</u>	<u>City-Wide Real-Time Water Quality Monitoring: the PAX SmartSystem(TM) Technology (Team 2)</u>
3:20 PM	3:50 PM	Patent Valuation	<u>Commercializing Nanocarriers for Neurological Diseases</u>	<u>Design of a Wearable Animatronic Costume</u>	<u>3D Cryoprinting for Tissue Engineering</u>		<u>American Jobs Project</u>
AFTERNOON BREAK 3:50-4:05PM							
Track Name		Data Science	BIOE	Product Design / Autonomous Driving	Environment / Energy	Electronics & Computers	Health Systems
4:10 PM	4:30 PM	<u>Automated Disambiguation of US Patent Grants and Applications by Machine Learning</u>	<u>Adhesive Elastomer Patch and Delivery Device for Fetal Membrane Pre-Sealing</u>	<u>Oscillating Wind Power</u>	<u>Solar Based Combined Electricity And Heating System</u>	<u>Tacto: Haptic Feedback in Virtual Reality with Wearable Flexible Electronics (Beyond Smartphones)</u>	<u>Save Patients from Hospital-Acquired Infections (SAHAI)</u>
4:35 PM	4:55 PM	<u>Predicting Bad Patents</u>	Clear Ear Bottle	Fault Tolerant Localization of Autonomous Vehicles	<u>Street Nature Score</u>	<u>Continuous Fetal Heart Rate Monitoring with Wearable Flexible Electronics(Beyond Smartphones B)</u>	<u>UCSF Delirium Pathway Optimization</u>
5:00 PM	5:20 PM	<u>Toolkit for VC investment</u>	<u>Thermocycler for In-Gel Nucleic Acid Amplification</u>	<u>Control Systems for Autonomous Driving</u>	<u>User Interface and Data Visualization for Environmental Assessment</u>	<u>Extended Platform for Android Telemonitoring</u>	<u>Optimization of Surgical Clinical Pathway at UCSF Health</u>
5:25 PM	5:45 PM	<u>Forecasting Volume of Home Equity Lending Applications</u>	<u>Exploring Commercialization of Microneedle Arrays Technology for Transdermal Drug Delivery</u>		<u>Berkeley Wave Converter Project</u>	<u>DODURA:Internet Deployment Optimization in Dense Urban Areas - Facebook</u>	<u>Developing an alternative to antibiotics</u>
AWARDS 6:00-6:15PM							