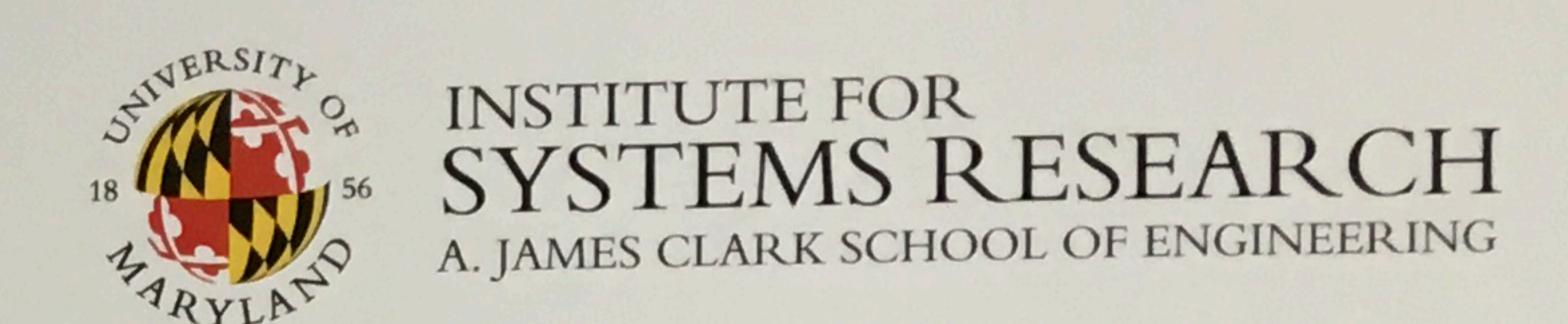
Micro Robotics Lab

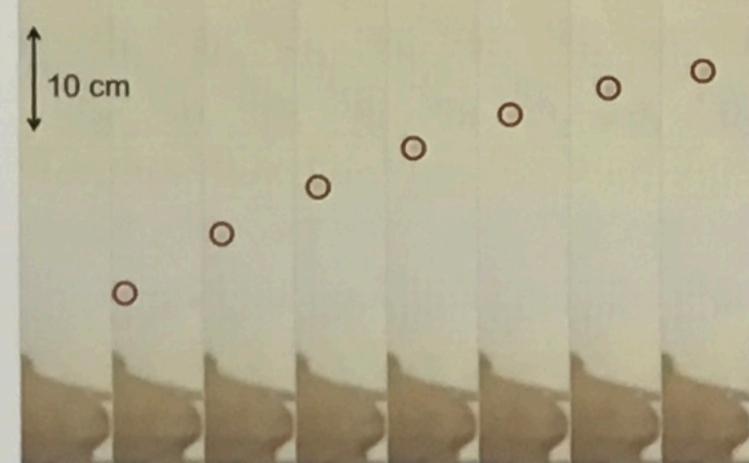
Prof. Sarah Bergbreiter

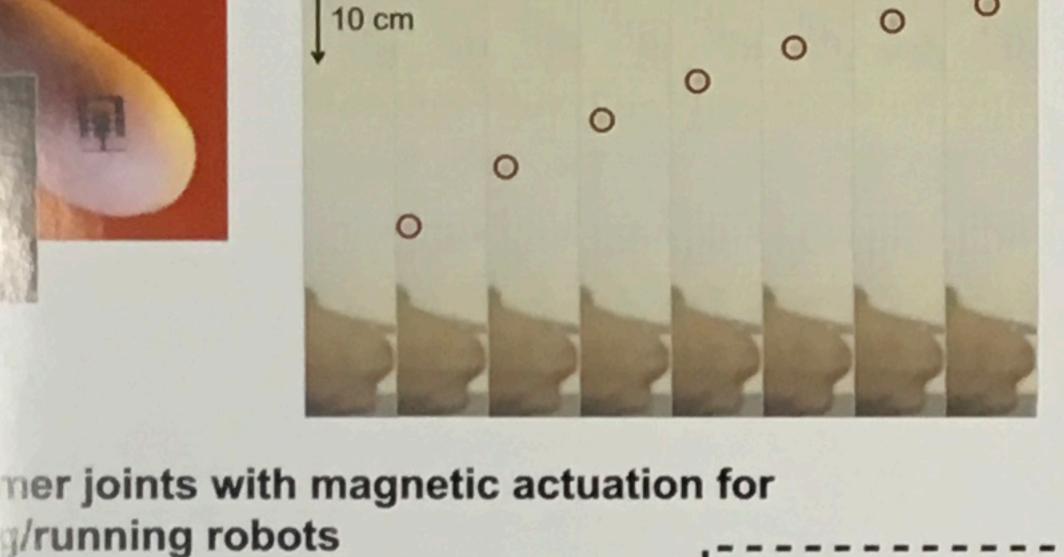


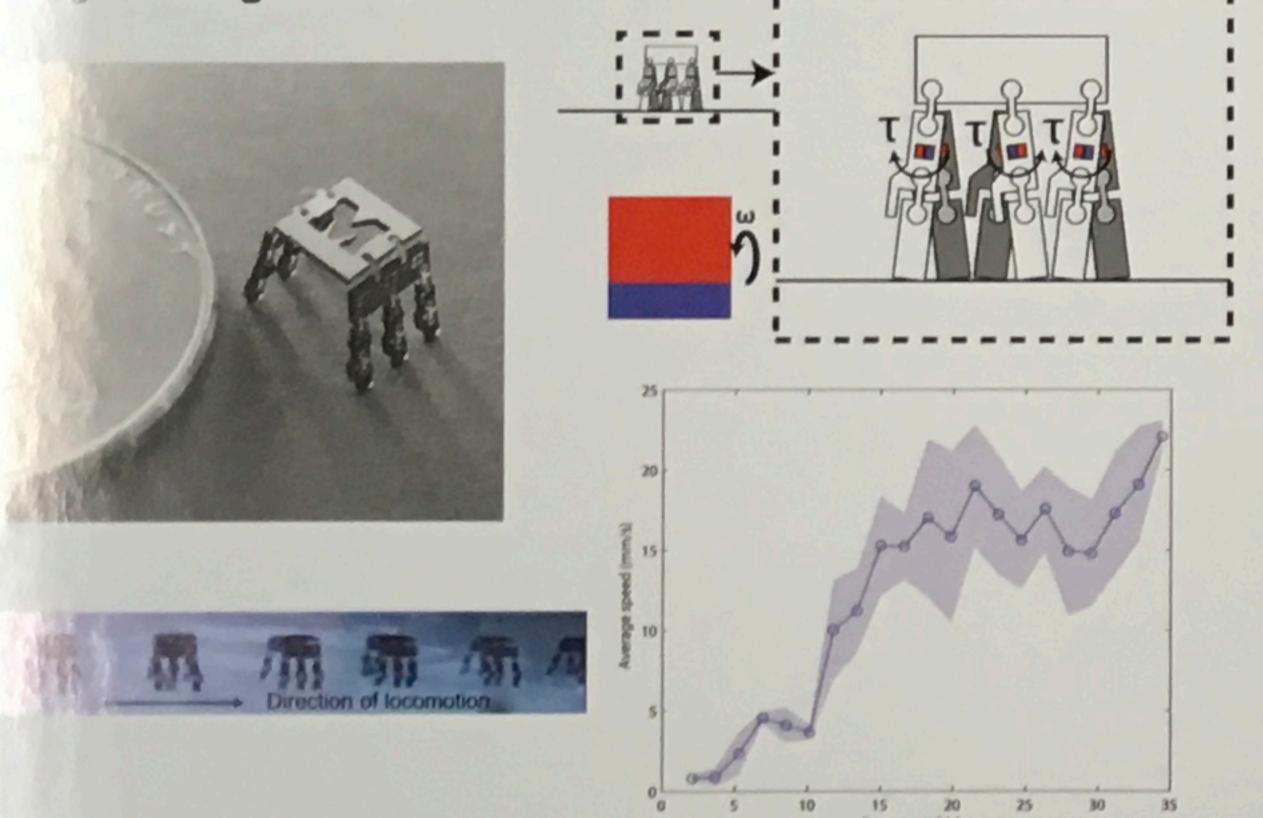
Goal: Expand the materials toolbox in microfabrication for improved locomotion and efficiency in small robots

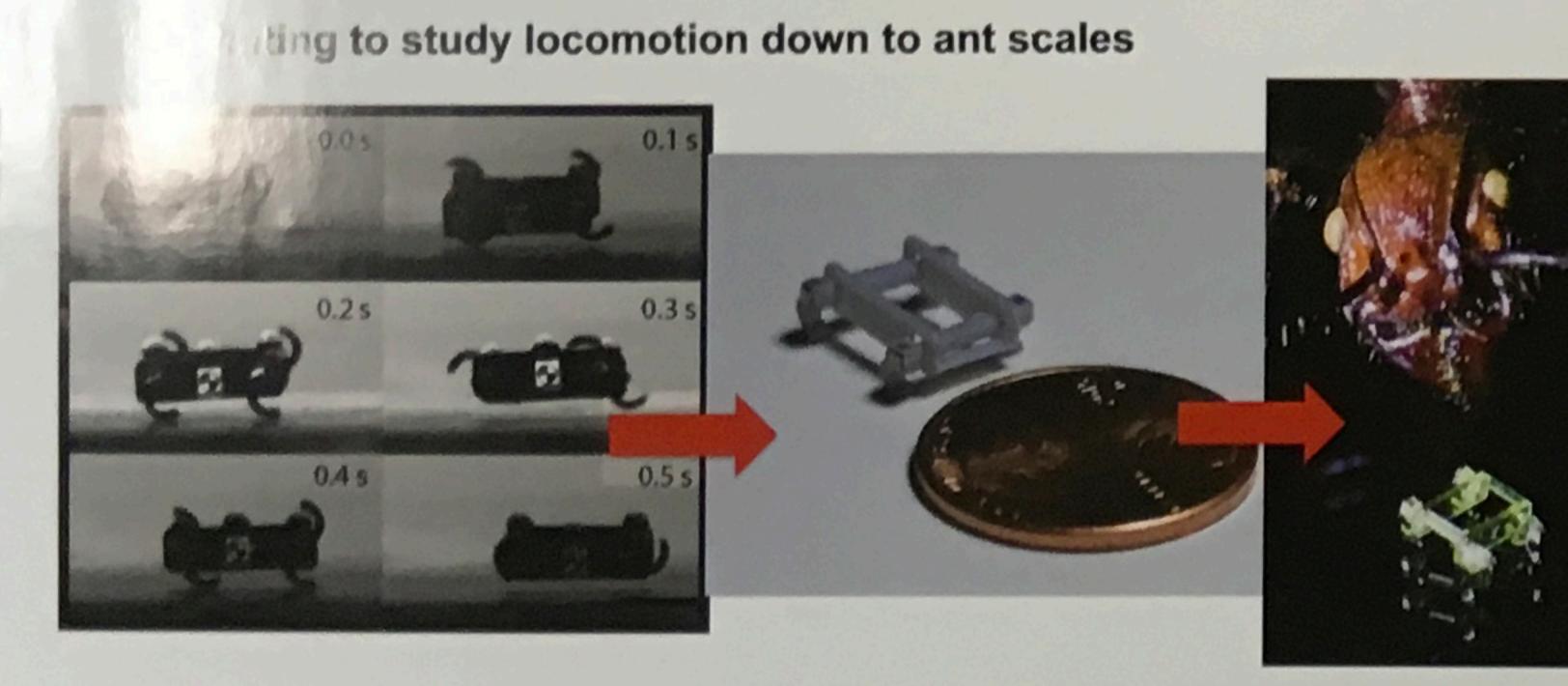
Incorporating elastomeric materials for energy storage for jumping robots



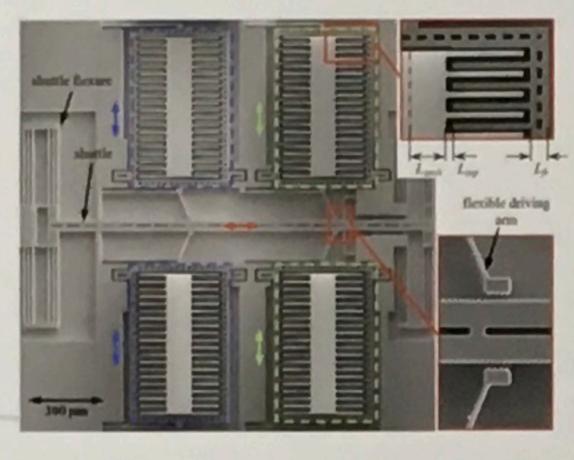


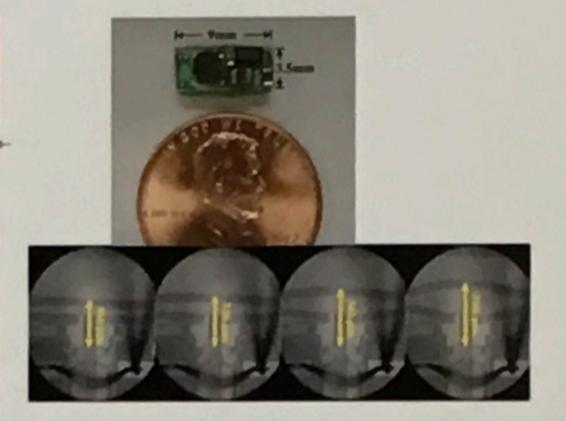




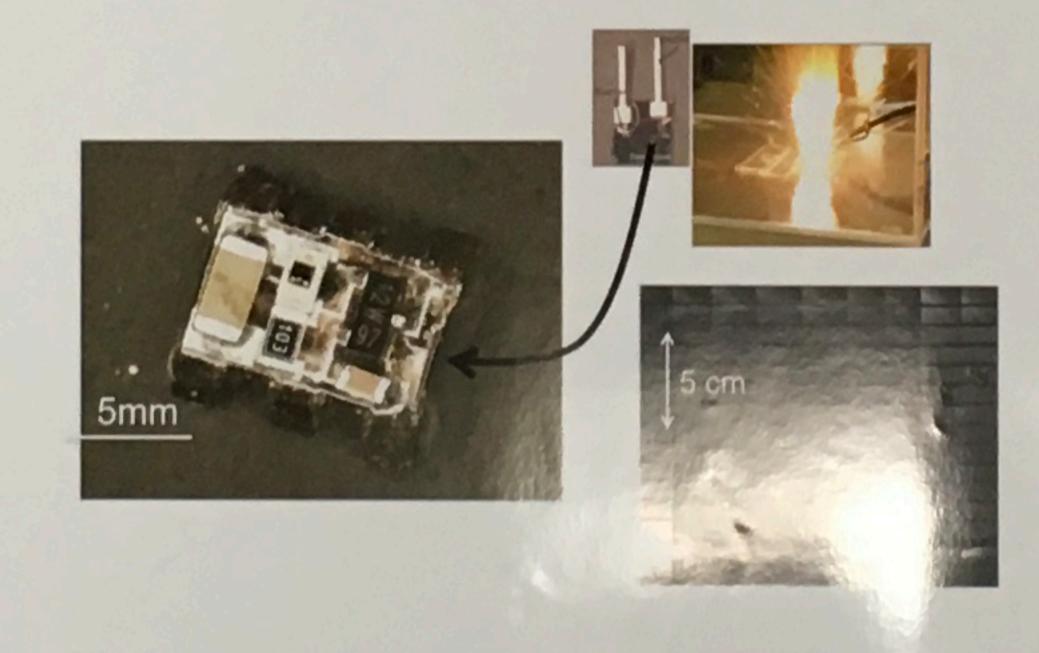


High force density, efficient microactuation systems (w/ Alireza Khaligh)

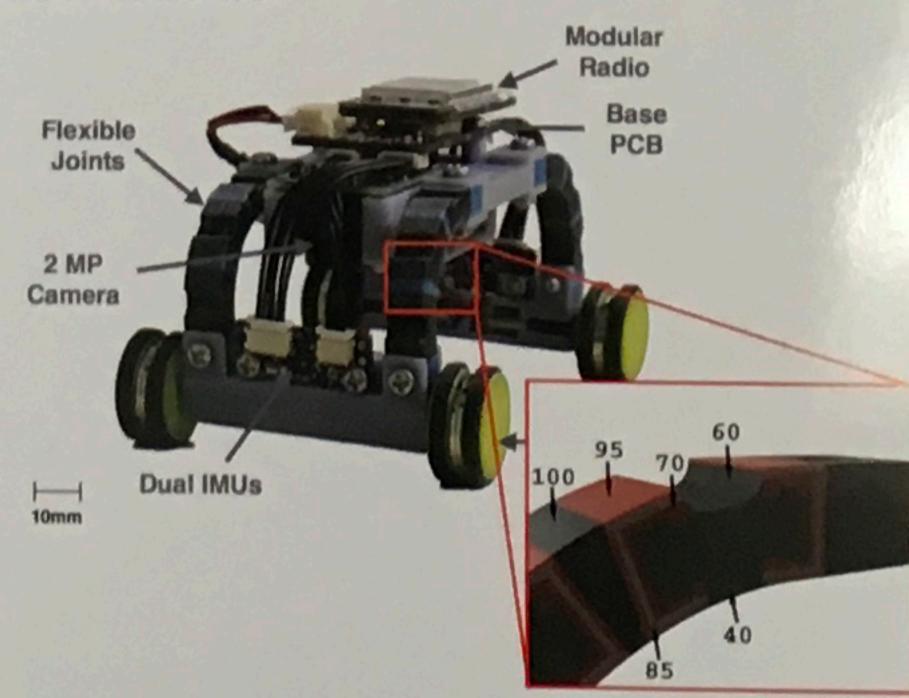




Energetic actuation for jumping robots (w/ ARL)

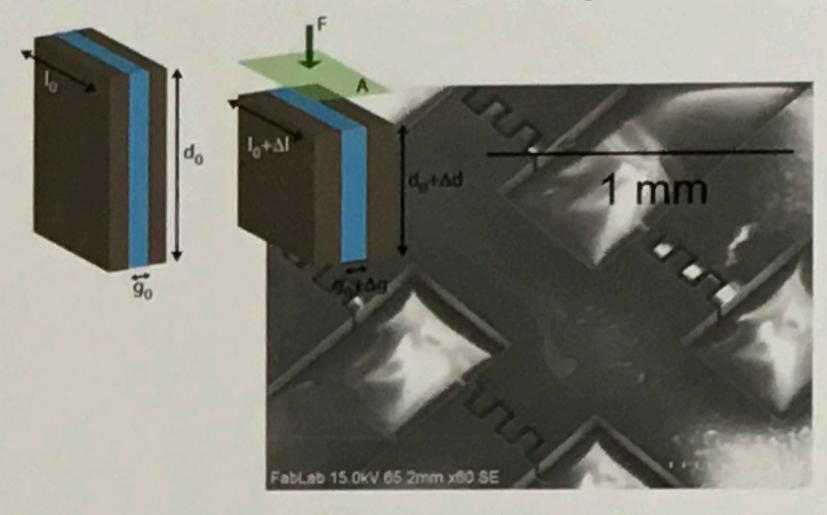


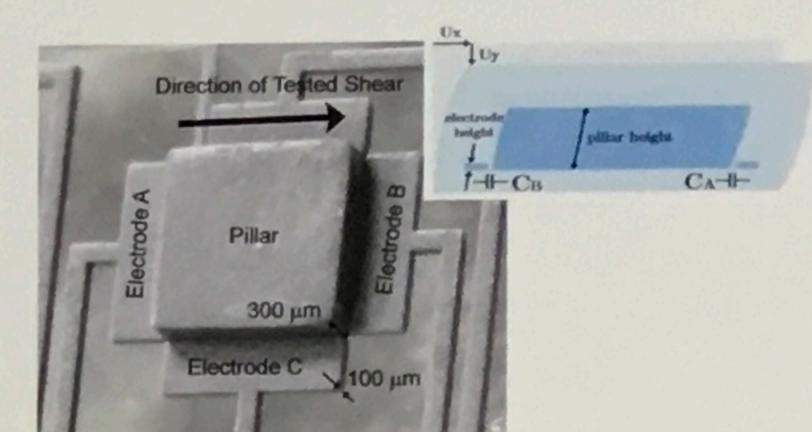
Compliant legs for locomotion in complex environments



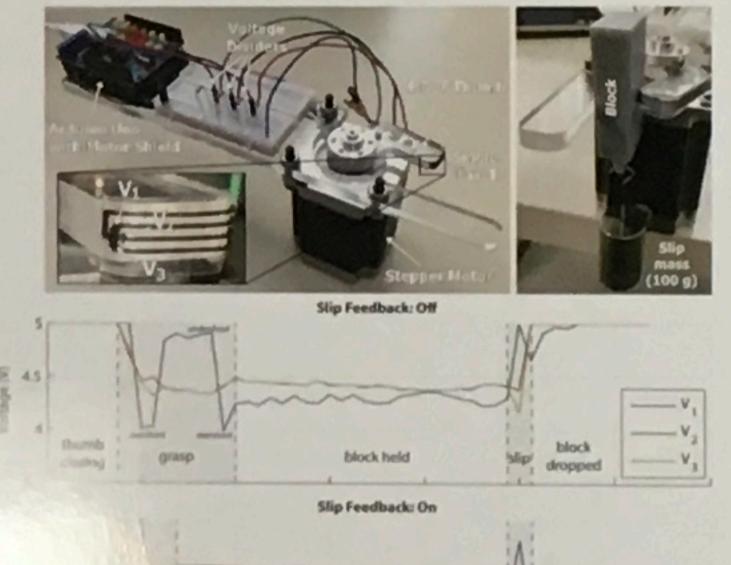
Goal: Microfabrication with multiple materials for improved sensors and actuators in larger robots

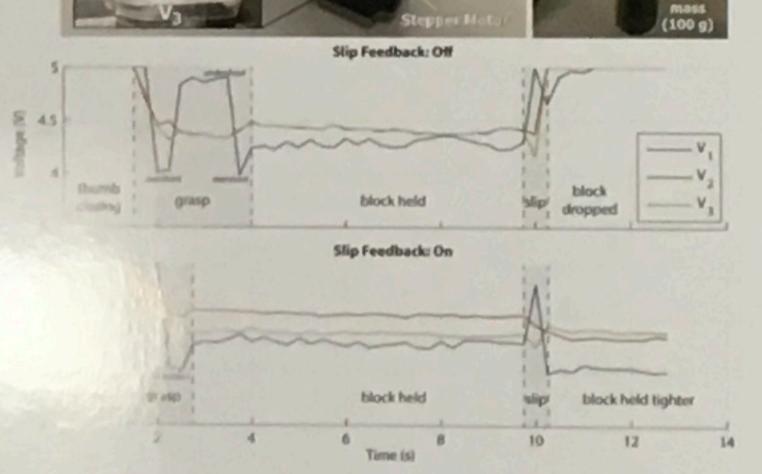
Elastomer-based capacitive force/strain sensing systems

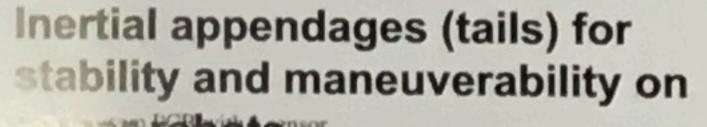


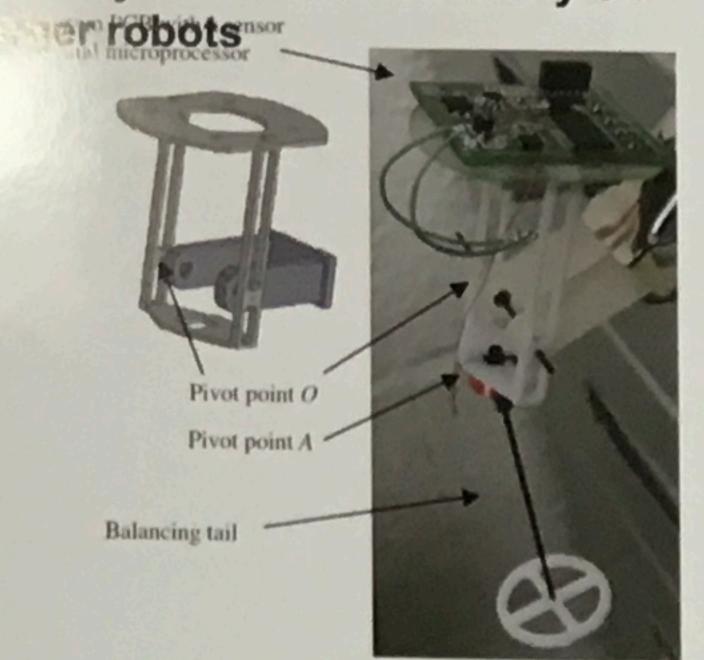


3-axis tactile sensing for robot manipulation

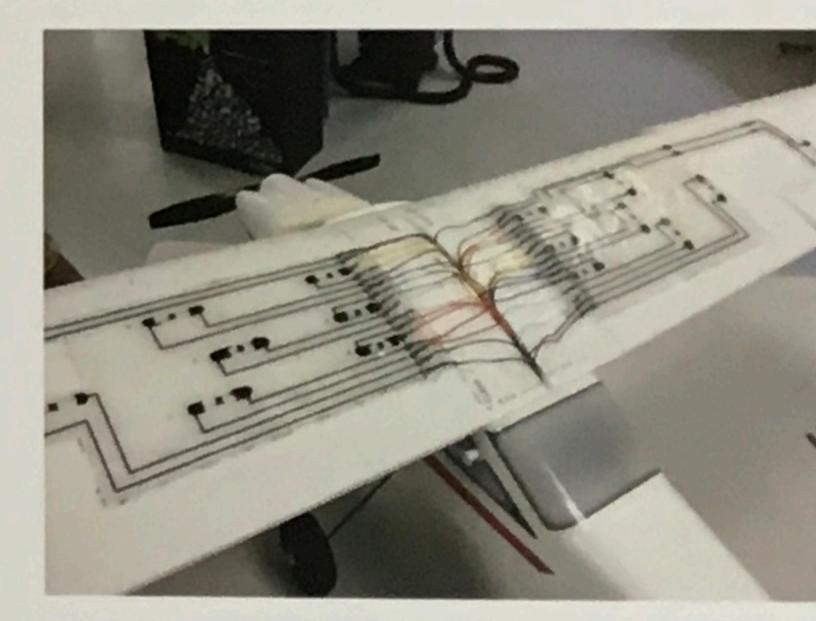








Strain sensing skins for improved UAV performance in gusty conditions



Electroadhesives to control robot adhesion to surfaces for climbing

