

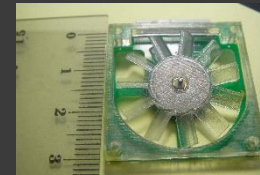
Prof. Mi-Ching Tsai

(Motor Design)

- Motor Design : such as coin-type motor, hub motor, brushless motor, reluctance motor, and some special motors, like linear piezoelectric motor, spherical piezoelectric motor, and planar motion piezoelectric motor
- Robust Control Applications : focus on motor control, such as impedance control, multi-axis synchronization control, learning control, repetitive control, power-assisted system
- Servo Control : focus on motor driver, such as sensorless drive control, electronic transmission systems



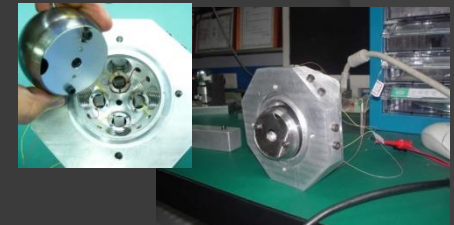
(Hub Motor)



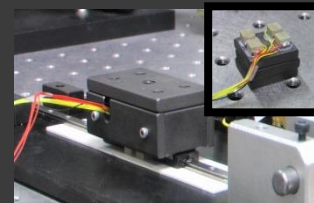
(Coin-type Motor)



(Reluctance Motor)



(Spherical Piezoelectric Motor)



(Linear Piezoelectric Motor)



(Power-assisted System)



(Impedance Control)



(Electronic Transmission System)

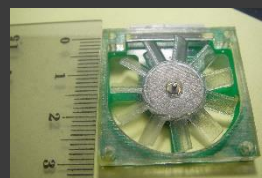
蔡明祺 講座教授

(馬達設計)

- 馬達設計：例如超薄型馬達、輪轂馬達、無刷馬達、磁阻馬達等，及一些特殊馬達，例如線型壓電馬達、球面運動壓電馬達、平面運動壓電馬達等
- 強健控制應用：專注於馬達控制等領域研究，例如阻抗控制、多軸同步控制、學習控制、重複控制、動力輔助系統等
- 伺服控制：專注於馬達驅動領域等研究，例如無感測器驅動控制、電子變速系統等



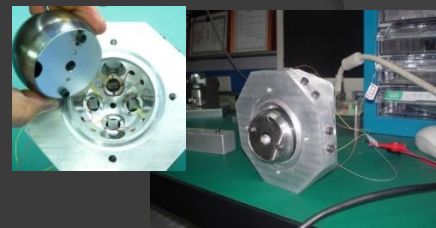
(輪轂馬達)



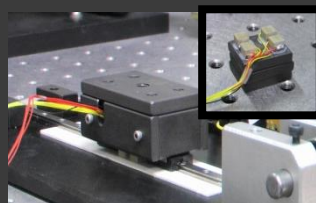
(超薄型馬達)



(磁阻馬達)



(球面運動壓電馬達)



(線型壓電馬達)



(動力輔助系統)



(阻抗控制)



(電子變速系統)