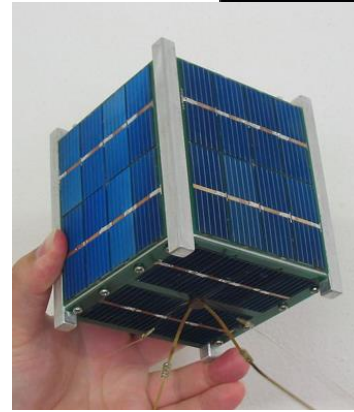
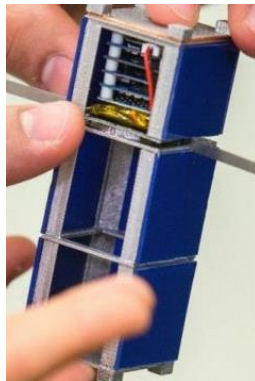
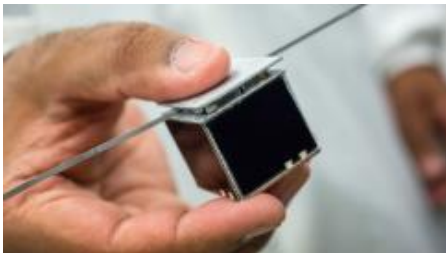


New Course in Spring'17

ECE590 Small Spacecraft Design and Engineering

Approved as EE and CpE Elective

- ✓ Comprehensive study of small spacecraft design, operations, communications, computing hardware, software, sensors, power, attitude control, ground station, and testing
- ✓ Review of ultra-small cubesats already launched into the space
- ✓ Emphasis on the development of a functional ultra-small cubesat to be launched by students in the future



ECE698/798 Research Project or MS Thesis

- ✓ Variety of topics available in the area of ultra-small cubesat
- ✓ Emphasis on the development of deployable functional modules for PocketSat and FemtoSat
- ✓ Primary interest in:
 - ✓ Communication systems for 140MHz uplink, 915MHz and 1.24GHz downlink
 - ✓ Software-defined receivers
 - ✓ Satellite tracking and transmission scheduling
 - ✓ Satellite attitude control
 - ✓ Satellite power system