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### **CUSat Nanosatellite Project**

The team will build, launch, and operate a pair of 25 kg satellites that will demonstrate how one satellite can inspect another in orbit. The pair uses relative GPS for sub-centimeter precision relative navigation and differential GPS for attitude determination. The team successfully competed against 10 other universities in the University Nanosatellite Program, winning the opportunity to launch CUSat on an Air-Force sponsored launch vehicle. CUSat was judged to be the best-conceived, best-designed, and best-built satellite from among the other universities in the competition. The spacecraft will be launched in late 2008 or 2009.

The 2009-2010 team will undergraduate through M.Eng. participants who are expected to commit at least two semesters to the project. AEP, CS, ECE, and MAE have contributed in the past, but a student of any major may have something to offer, as long as the student is enthusiastic about building and flying spacecraft. The Satellite is expected to launch in the spring semester sometime. Therefore, this year's work will consist of spaceflight operations. The ground segment (remote ground stations, flight procedures, etc.) will also receive attention. For more information and to complete an application, go to <http://cusat.cornell.edu/recruiting.php>, which will be updated by August 29, 2009. An info session will be held at the beginning of the semester, after which applications will be accepted. Announcements will appear on this website as well as on posters throughout the engineering buildings.

The team interacts heavily with the aerospace industry, NASA, and the Air Force. Participating is a good way to make contacts for an eventual career in spacecraft engineering.

For more information, see <http://cusat.cornell.edu>