



What is TracSat?

TracSat, an abbreviation of Tracking Satellite, is a CubeSat design project sponsored by General Atomics dealing with guidance, navigation, and control of nanosatellites.

Student Opportunities

This is a CubeSat design, build, and test opportunity for students. This project will provide hands-on experience with circuit design and printed circuit boards, sensor testing and integration, microcontrollers, automatic control design and implementation, software creation, laser communication, and hardware fabrication.

Who Should Apply?

We are looking for undergraduate students that want to obtain experience working with nanosatellite technology. An interest in guidance, navigation, and control is preferred. Utilized technologies include TTL laser modules, photodiodes, FPGA/CPU boards, PID controllers, PCBs, solenoid valves, servos, etc. This is a year-long course.

Instructing team: Prof. Alex Shashurin (Instructor); Brian Jeffers (TA)
Submit your resume/questions about the project to Brian Jeffers jeffersb@purdue.edu