Project Details

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**Project Summary:**

SpiderBot is essentially a round-body six-legged walking robot, made to traverse rough and uneven terrains. The hexapod will be capable of basic mobility like moving forward, backward, turning etc. The legs will be of a modular design with three degrees of freedom. The robot will serve as a test platform for testing different control, dynamics, motion planning, trajectory generation algorithms of legged robots. The bot will have base stabilization algorithms. Different sensors can be added for robot perception and sensing.

**Project Progress:**

Firstly we are testing the algorithms on a simulink model of quadruped with similar legs structure for our hexapod. We have solved some dynamic algorithms of the robot and tried some basic simulations on the simulink model. We have started researching control algorithms as well.