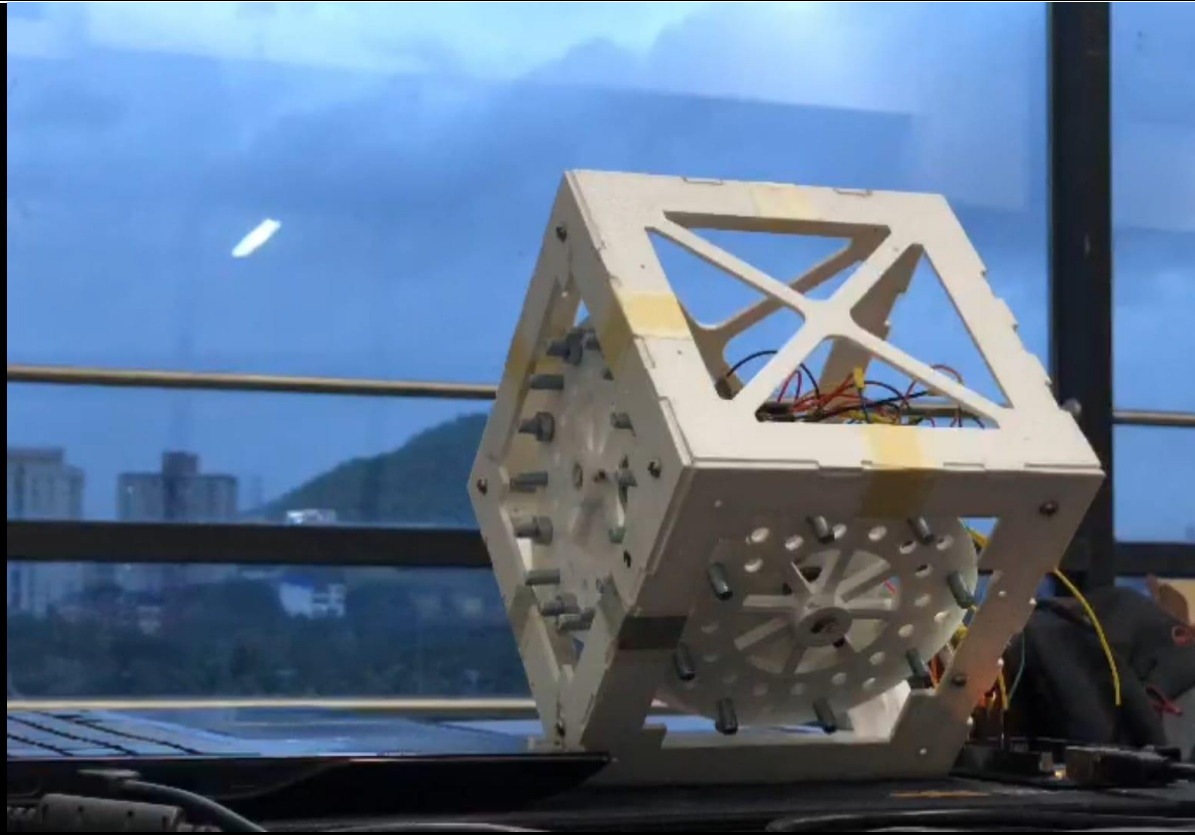


eCube

Implementation & Analysis of various Control Techniques to Balance a Cube

**Description:**

A cube-shaped Reaction wheel-based 3D Inverted Pendulum. LQR (Linear Quadratic Regulator) and PID control techniques were applied in Simulation followed by implementation on the physical robot to balance the cube on its Vertex and Edges.