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Single Degree of Freedom Helicopter Model: Laboratory Setup Design

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Rohit Mane ; Kaliprasad A. Mahapatro ; Aniket D. Gundecha **All Authors**39
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Abstract:

This paper presents the design of a single degree of freedom (1-DOF) Helicopter model mounted on light-weighted hollow metal rod passed through a rectangular metal block fixed between vertical support. The light weighted metal rod through the metal rod is placed such that the length from the block to its end is adjustable. A Brush Less Direct Current (BLDC) Motor, along with the Arduino controller, is connected at the end of the rod with a propeller fixed on it.

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