

# Innovative Ceiling Fan-Based Suicide Prevention System: Review

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**Abstract:** *Suicide prevention is a critical public health concern, with hanging from ceiling fans being a prevalent method in such cases. This project proposes an innovative solution through the development of a ceiling fan equipped with a spring-loaded rod mechanism. Upon detecting the weight of an individual attempting to hang, the rod extends automatically to reduce pressure on the neck, thereby preventing asphyxiation. Additionally, the system incorporates an integrated alarm that promptly notifies family members or nearby individuals, enabling immediate intervention. Designed to be cost-effective, unobtrusive, and easily installable, this solution combines advanced mechanical engineering with automated alert systems to address suicide prevention effectively. By offering a proactive and practical approach, this project aims to reduce fatalities and provide timely support during critical situations.*

**Keywords:** Suicide prevention, Public health concern, Asphyxiation prevention, Fatality reduction