

Design and construction of smart air purifier

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Abstract: In the context of declining air quality due to industrial pollution, the design and construction of a smart air purifier system have become urgent. This project aims to build a fully automated solution for the air filtration process, meeting individual and community needs. The research method is based on a combination of air science theory with advanced sensor technologies and artificial intelligence to optimize filtration performance. The expected result is a smart air purifier system that can automatically adjust the filtration level based on air quality, contributing to improved public health and environmental protection.

Keywords: Air purifier, Smart, Air pollution, Sensor, Artificial intelligence