

## Konsep desain awal konstruksi rangka kendaraan terbang = Preliminary design concept and construction of flying vehicle frame

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### Abstrak

<b>ABSTRACT</b><br>

Kendaraan untuk mengangkut manusia kini telah mengalami perkembangan yang sangat pesat. Berbagai kendaraan telah mengalami perkembangan fitur untuk memenuhi kebutuhan masyarakat. Kondisi jalan yang saat ini sudah sangat penuh cenderung sering terjadi kemacetan, menimbulkan ide untuk mengatasi permasalahan ini. Sehingga muncul ide konsep mobil terbang yang ditujukan untuk mengatasi masalah jalan yang padat dan mencapai waktu tempuh yang singkat bagi pengendara. Konsep mobil terbang ini sudah banyak dicetuskan oleh banyak peneliti namun belum ada yang direalisasikan dan dijual bebas agar dapat digunakan oleh khalayak ramai. Oleh karena itu diharapkan dari studi ini penulis dapat mengembangkan sebuah desain konsep dari mobil terbang yang kelak dapat diproduksi massal untuk menjawab permasalahan jalan yang padat. Studi ini meliputi analisis pengujian desain, konfigurasi, serta performa dari mobil terbang.

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<b>ABSTRACT</b><br>

Vehicles that are used to transport people from places to places has gone through some development by means of research. A lot of development has been done to private and mass transportations by their features to fit needs that the market demands. In the other hand, the mass production and consumerism toward vehicle has caused a new problem to emerge. The traffic jam is one of the major problems caused by the mass usage of private transportation. The rising demand of cars and other types of private transportation does not fit the infrastructure that is available. The capacity of road has reached its maximum and therefore traffic jam is inevitable. The concept idea of flying car is the answer to all these problems. Nevertheless, this concept that has been thought by many and has been built by many researchers has not emerged to fill the need of people. Therefore, by this study of flying car, writers can hopefully achieve the answer to all problems regarding traffic jam and fulfil the need of a futuristic transportation that is seamless and costs less. This study involves analysis of design evaluation, configuration, and also performance of flying car.