



**SIMULATION OF ENGINE INTAKE MANIFOLD AIR DRIVEN BY
ELECTRIC-DRIVE AXIAL-FAN BLOWER**

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ABSTRACT

This project is based on the CFD simulation (Fluent and Gambit) to simulate the characteristic of engine intake air. These simulations are selected to study the characteristic of intake air such as velocity, pressure, and temperature of air. From simulation, this project also will determine the volumetric efficiency of 1.5 Liter 4G15-Proton Iswara engine at 3000 RPM. This thesis will cover the project progress from the beginning until conclusion and recommendation. It is expected that the reader can understand and aware about the concept of intake air behavior and volumetric efficiency. It is hoped that the car owner and automotive industrialist aware about this project and can be implemented on the vehicle.

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