

# Design and Fabrication of Automatic Tyre Inflation and Deflation System for Four Wheeler

V. N. Loganathan<sup>1</sup>, N. Abilash Sharma<sup>2</sup>, V. Kannan<sup>3</sup>, S. Kavin<sup>4</sup>, V. P. Prashanth<sup>5</sup>

Associate Professor, Department of Mechanical Engineering<sup>1</sup>

UG Student, Department of Mechanical Engineering<sup>2,3,4,5</sup>

Nandha Engineering College (Autonomous), Erode, India

Correspondent E-Mail: vnloga@gmail.com, krishkannan434@gmail.com

**Abstract:** *Now a days major people used four wheeler for their comfort and Sophistication. Most of the drivers didn't check the tire pressure regularly. Driven time observation that shows that a drop in tire pressure by just a few psi can result in the reduction of mileage, their life, safety, and vehicle performance. So we have designed to an automatic tire inflation and deflation system its continuously monitored air pressure inside the tire while running condition. When the air pressure will be over inflated or under inflation at that point the electronic system is activated to the solenoid valve. The solenoid valve is to be deplete or reload the exact air pressure. This paper will focuses to overcome the problems and suggested a proposed working model with expected results of exact maintenance of the pressure in the tyre.*

**Keywords:** Pressure Sensor, Solenoid Valve, Relay, Micro Controller, Universal joint, etc.,

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