

Design and construction of a self-balancing vehicle system.

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Abstract: In the context of high demand for flexible and safe means of transportation, this topic focuses on the design and construction of a self-balancing vehicle system. The objective of the research is to build a stable self-balancing vehicle system with control capabilities based on sensors and algorithms. The research method includes both theoretical aspects of control mechanics and experiments to verify the effectiveness of the proposed solutions. The expected result is an efficiently operating system, making a significant contribution to the development of autonomous vehicle technology.

Keywords: self-balancing vehicle, control system, sensor