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# Design of Alternative Transportation Network in Downtown Fort Wayne to Improve Traffic Flow and Circulation

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## Design of Alternative Transportation Network in Downtown Fort Wayne to Improve Traffic Flow and Circulation

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This paper presents the senior design project for senior students in the Civil Engineering program at IPFW. The current network was designed to accommodate a major traffic corridor created by a major industrial zone in the area. The paper will report the results of modeling, calibrating, and simulating the existing traffic network and conditions, four alternative design options, the optimum design, and the detailed design. In addition, the paper will present the safety analysis using GIS identify hot spot in the network and recommendations to improve safety. The paper will discuss the learning outcomes of the project, lesson learned, and conclusions and recommendations for future projects.