Cost Effective Rollover Mitigation Strategy

Shawn Patrick Schneider

Thesis submitted to the faculty of the Virginia Polytechnic Institute and State University in partial fulfillment of the requirements for the degree of Master of Science in Mechanical Engineering

Dr. Steve Southward, Chairman
Dr. Medhi Ahmadian
Dr. Saied Taheri

5 April 2010
Danville, Virginia

Keywords:
Vehicle Model, Rollover, Mitigation, Detection, SimMechanics, End-Stop Control

Copyright 2010, Shawn P Schneider
Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Shawn Schneider


Report generated on: 03-01-2010 at : 23:58:22

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: in favor of fair use

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: in favor of fair use

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: in favor of fair use

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: in favor of fair use

Based on the information you provided, your use of the copyrighted work weighs: in favor of fair use

Figure B.1. Fair Use Analysis of A Comprehensive Experimental Examination of Test Maneuvers That May Induce On-Road, Untripped, Light Vehicle Rollover - Phase IV of NHTSA's Light Vehicle Rollover Research Program [2]
Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Shawn Schneider


Report generated on: 03-02-2010 at : 10:23:20

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: in favor of fair use

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: in favor of fair use

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: against fair use

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: in favor of fair use

Based on the information you provided, your use of the copyrighted work weighs: in favor of fair use

Figure B.2. Fair Use Analysis of Detection of Vehicle Rollover [4]
Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Shawn Schneider


Report generated on: 03-02-2010 at : 10:30:45

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: in favor of fair use

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: in favor of fair use

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: against fair use

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: in favor of fair use

Based on the information you provided, your use of the copyrighted work weighs: in favor of fair use

Figure B.3. Fair Use Analysis of A Method for Reducing On-Road Rollovers -- Anti-Rollover Braking [21]
Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Shawn Schneider


Report generated on: 03-02-2010 at : 10:36:05

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: in favor of fair use

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: in favor of fair use

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: in favor of fair use

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: in favor of fair use

Based on the information you provided, your use of the copyrighted work weighs: in favor of fair use

Figure B.4. Fair Use Analysis of Fundamentals of Vehicle Dynamics [28]