Adaptive and Passive Non-Visual Driver Assistance Technologies for the Blind Driver Challenge®

Paul C. D'Angio

DISSERTATION SUBMITTED TO THE FACULTY OF THE VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN MECHANICAL ENGINEERING

Dennis W. Hong, Chair
Alexander Leonessa, Co-Chair
Stephen C. Southward
Robert H. Sturges
Robin K. Panneton

May 30, 2012
Blacksburg, Virginia

Keywords: Driver Assistive Technologies, Model Predictive Control, Real-Time Neural Network Driver Modeling, Quasi-Newton Optimization, Non-Visual Human Computer Interfaces
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: Paul D'Angio


Report generated on: 05-30-2012 at : 11:03:39

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
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: Paul D'Angio

Description of item under review for fair use: Figure 3-3. Leviton QuickPort Cat5E Wall Jack used for the DriveGrip Glove standard connector. Adapted from "Adaptive and Passive Non-Visual Driver Assistance Technologies for the Blind Driver Challenge," by P. C. D'Angio, 2012. Source: AARTech Canada, August 2011, http://www.aartech.ca/images/cache/9bed8ee11bd34a45a84acc100c8b1af5.jpg

Report generated on: 05-30-2012 at : 11:05:55

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
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: Paul D’Angio


Report generated on: 05-30-2012 at : 11:10:20

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: 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
favor of fair use
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: Paul D'Angio


Report generated on: 05-30-2012 at : 11:16:03

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