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1. INTRODUCTION

This report is prepared for Innovacia Sdn Bhd. The testing was conducted from 12 to 16 September 2011 at Computer Aided Engineering (CAE) Laboratory, Faculty of Mechanical and Manufacturing Engineering, Universiti Tun Hussein Onn Malaysia (UTHM). The testing subject was TiffinCAD, a Computer Aided Design (CAD) software supplied by the client. Comparison of the features was done relative to AutoCAD 2011 and AutoCAD LT 2012. The Automotive Research Group (ARG-UTHM) carried out all the testing and results of the evaluation.

2. TESTING METHODOLOGY

The tested software, TiffinCAD was supplied by the client together with AutoCAD 2011 and AutoCAD LT 2012. Each feature is tested using TiffinCAD. The same feature was also tested on both software, AutoCAD 2011 and AutoCAD LT 2012.

3. RESULTS OF COMPARISON

TABLE 1: TiffinCAD vs AutoCAD Comparison Chart
(Platform: Windows XP & Windows 7)

<i>ITEM</i>	<i>FEATURES</i>	<i>AUTOCAD 2010</i>	<i>AUTOCAD LT 2012</i>	TIFFINCAD
1	Native dwg format	yes	yes	YES
2	Support for AutoCAD command line	yes	yes	YES
3	AutoCAD 3D surface commands	yes	yes	YES
4	AutoLISP support (including .DCL)	yes	no	YES
5	Autodesk Development System (ADS) support	yes	no	YES
6	Object ARX support	yes	no	YES
7	AutoCAD menu (.MNU) and script (.SCR) file	yes	yes	YES
8	True Type font support	yes	yes	YES

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9	Primitive 3D solid	yes	no	YES
10	Raster image display	yes	yes	YES
11	Multiple open documents	yes	yes	YES
12	Drawing Explorer for managing layers, blocks, linetypes ++	yes	yes	YES
13	Graphical block preview	yes	yes	YES
14	ActiveX support for in-place editing	yes	no	YES
15	Script recorder	yes	no	YES
16	Real Time Pan & Zoom	yes	yes	YES
17	Right-mouse click to edit properties	yes	yes	YES
18	Unlimited undo	yes	yes	YES
19	Unlimited redo	no	no	YES
20	Bilingual English/BM GUI & Command Line	no	no	YES

4. COMMENTS

TABLE 2: Remarks on TiffinCAD

<i>ITEM</i>	<i>FEATURES</i>	<i>COMMENTS</i>
1	Native dwg format	OK. By default, it shows model, layout 1 and layout 2. It is proposed to include history (recent document) in TiffinCAD.
2	Support for AutoCAD command line	OK. The icon is under Draw 2D Toolbar.
3	AutoCAD 3D surface commands	OK. Surface Command and Draw 3D Command under the same Toolbar.
4	AutoLISP support (including .DCL)	OK.
5	Autodesk Development System (ADS) support	OK.
6	Object ARX support	OK.
7	AutoCAD menu (.MNU) and script (.SCR) file	OK.
8	True Type font support	OK.
9	Primitive 3D solid	OK. Surface Command and Draw 3D Command under the same Toolbar. Convenient to the users.

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10	Raster image display	OK. Zoom IN/OUT enables the shade mode appearance.
11	Multiple open documents	OK. Able to open any format of the drawings.
12	Drawing Explorer for managing layers, blocks, linetypes ++	OK. For Line type selection, this TiffinCAD is easier as it is not required to select the 'LOAD' button line.
13	Graphical block preview	OK.
14	ActiveX support for in-place editing	OK.
15	Script recorder	OK.
16	Real Time Pan & Zoom	OK. Able to show Zoom All command by double click the center mouse.
17	Right-mouse click to edit properties	OK.
18	Unlimited undo	OK.
19	Unlimited redo	OK.
20	Bilingual English/BM GUI & Command Line	OK. Very helpful to the users.

5. CONCLUSION

The evaluation of TiffinCAD runs smoothly during the testing. Overall results show the technical capability of TiffinCAD is equivalent to AutoCAD. In fact, it has many other advantages as indicated in the comments compared to other CAD software in the market.

AUTOMOTIVE RESEARCH GROUP, UTHM (ARG-UTHM)

Shahrin Hisham Amirnordin, Project Leader for this testing, prepared this particular report. He is also the Head of Automotive Research Group UTHM and member of Centre of Energy and Industrial Environment Studies (CEIES). The technical person involved in the testing is Mohd Nizam Katimon, the Head of CAE Laboratory as well as the expert in AutoCAD software and other related software available in Faculty of Mechanical and Manufacturing Engineering, UTHM.

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