



# Tools for Design Using AutoCAD 2014 and Autodesk Inventor 2014

*Randy Shih*

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Tools for Design is intended to provide the user with an overview of computer aided design using two popular CAD software packages from Autodesk: AutoCAD and Autodesk Inventor. This book explores the strengths of each package and show how they can be used in design, both separately and in combination with each other.

## **What you will learn**

- How to create and dimension 2D multiview drawings using AutoCAD
- How to freehand sketch using axonometric, oblique and perspective projection techniques
- How to create 3D parametric models and 2D multiview drawings using Autodesk Inventor
- How to reuse design information between AutoCAD and Autodesk Inventor
- How to combine parts into assemblies including assembly modeling with a LEGO MINDSTORMS Education Base Set with TETRIX kit and a VEX Robot Kit
- How to perform basic finite element stress analysis using Inventor Stress Analysis Module

## **Who this book is for**

This book is designed for high school and college age students wanting to learn the fundamentals of computer aided design with AutoCAD and Inventor and how the two can be used together. No prior CAD experience is required.

## **Table of Contents**

1. Introduction: Getting Started
2. Fundamentals of AutoCAD
3. Basic Object Construction and Dynamic Input - AutoCAD
4. Geometric Construction and Editing Tools - AutoCAD
5. Orthographic Views in Multiview Drawings - AutoCAD
6. Basic Dimensioning and Notes - AutoCAD
7. Pictorials and Sketching
8. Parametric Modeling Fundamentals - Autodesk Inventor
9. Constructive Solid Geometry Concepts - Autodesk Inventor
10. Model History Tree - Autodesk Inventor
11. Parametric Constraints Fundamentals - Autodesk Inventor
12. Geometric Construction Tools - Autodesk Inventor
13. Parent/Child Relationships and the BORN Technique - Autodesk Inventor
14. Part Drawings and 3D Annotation - Autodesk Inventor
15. Symmetrical Features in Design - Autodesk Inventor
16. Design Reuse
17. Assembly Modeling - Putting It All Together - Autodesk Inventor
18. Design Analysis - Autodesk Inventor Stress Analysis Module

## Bonus Chapters Downloads

18. Assembly Model with the LEGO MINDSTORMS NXT Set - Autodesk Inventor
19. Assembly Model with the TETRIX by Pitsco Building System - Autodesk Inventor
20. Assembly Model with VEX Robot Kit

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