

# Automating SolidWorks® 2013 Using Macros

A guide to creating VSTA  
macros using the Visual  
Basic.NET Language



Mike Spens

# Automating Solidworks 2013 Using Macros

**Mike Spens**



## **Automating Solidworks 2013 Using Macros:**

**Automating Solidworks 2013 Using Macros** Mike Spens, 2013-07-17 Automating SolidWorks 2013 Using Macros is designed as a tutorial to help beginner to intermediate programmers develop macros for SolidWorks and SolidWorks Workgroup PDM. The focus of this book is primarily on the Visual Studio Tools for Applications (VSTA) macro interface. It covers many of the major API functions through practical use cases. It teaches many Visual Basic .NET fundamentals as well as SolidWorks SolidWorks Workgroup PDM and Excel API functions. The Author has also added a chapter dedicated to some of his favorite source code for you to use as the basis for typical automation procedures. What you will learn: Record macros, Control Custom Properties, Create parts and features, Build assemblies, Batch create drawings, Extract information from Workgroup PDM, Create many other time saving utilities.

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*Automating SolidWorks 2004 Using Macros* Mike Spens,2004      *Automating Macros Using SolidWorks 2006* Mike Spens,2005-11      *SolidWorks API Series 1: Programming & Automation* Luke Malpass,2014-01-11 The first in the series of books on programming of the SolidWorks CAD software is here Shipping to anywhere in the world If you are new to programming or a seasoned developer this book suits all levels Covering VBA C and VB Net this is the only book you will need to know everything you need about the SolidWorks API      *SolidWorks 2013 Tutorial* David C. Planchard,Marie P. Planchard,2013 SolidWorks 2013 Tutorial with Video Instruction is targeted towards a

technical school two year college four year university or industry professional that is a beginner or intermediate CAD user The text provides a student who is looking for a step by step project based approach to learning SolidWorks with an enclosed 1 5 hour video instruction DVD SolidWorks model files and preparation for the CSWA exam The book is divided into two sections Chapters 1 7 explore the SolidWorks User Interface and CommandManager Document and System properties simple machine parts simple and complex assemblies design tables configurations multi sheet multi view drawings BOMs Revision tables using basic and advanced features along with Intelligent Modeling Techniques SustainabilityXpress SimulationXpress and DFMXpress Chapters 8 11 prepare you for the new Certified SolidWorks Associate Exam CSWA The CSWA certification indicates a foundation in and apprentice knowledge of 3D CAD and engineering practices and principles Follow the step by step instructions and develop multiple assemblies that combine over 100 extruded machined parts and components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables and configurations Learn by doing not just by reading Desired outcomes and usage competencies are listed for each chapter Know your objective up front Follow the steps in each chapter to achieve your design goals Work between multiple documents features commands custom properties and document properties that represent how engineers and designers utilize SolidWorks in industry Commands Guide Tutorial for SolidWorks 2013 David C. Planchard, Marie P. Planchard, 2012-12-27 The Commands Guide Tutorial for SolidWorks 2013 is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2013 SolidWorks is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SolidWorks 2013 This book covers the following System and Document properties FeatureManagers PropertyManagers ConfigurationManagers RenderManagers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal Motion Study Sustainability Sustainability Xpress FlowXpress PhotoView 360 Pack and Go Intelligent Modeling techniques and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SolidWorks 2013 software If you are completely new to SolidWorks you should read Chapter 1 in detail and complete Lesson 1 Lesson 2 and Lesson 3 in the SolidWorks Tutorials If you are familiar with an earlier release of SolidWorks you still might want to skim Chapter 1 to become acquainted with some of the commands menus and features that you have not used or you can simply jump to any section in any chapter Each chapter 18 total provides detailed PropertyManager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the SolidWorks tool or feature All models for the 240 plus tutorials are located on the enclosed book CD with their solution initial and final Learn by doing not just by reading Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables configurations and more The book is design to

compliment the Online Tutorials and Online Help contained in SolidWorks 2013 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The authors developed the tutorials by combining their own industry experience with the knowledge of engineers department managers professors vendors and manufacturers These professionals are directly involved with SolidWorks everyday Their responsibilities go far beyond the creation of just a 3D model

**Learning SolidWorks 2013** Randy H. Shih, 2012-11-30 This book will teach you everything you need to know to start using SolidWorks 2013 with easy to understand step by step tutorials This book features a simple robot design used as a project throughout the book You will learn to model parts create assemblies run simulations and even create animations of your robot design No previous experience with Computer Aided Drafting CAD is needed since this book starts at an introductory level The author begins by getting you familiar with the SolidWorks interface and its basic tools right away You will start by learning to model simple robot parts and before long you will graduate to creating more complex parts and multi view drawings Along the way you will learn the fundamentals of parametric modeling through the use of geometric constraints and relationships You will also become familiar with many of SolidWorks s powerful tools and commands that enable you to easily construct complex features in your models Also included is coverage of gears gear trains and spur gear creation using SolidWorks This book continues by examining the different mechanisms commonly used in walking robots You will learn the basic types of planar four bar linkages commonly used in mechanical designs and how to use the GeoGebra Dynamic Geometry software to simulate and analyze 2D linkages Using the knowledge you gained about linkages and mechanism you will learn how to modify your robot and change its behavior by modifying or creating new parts In the final chapter of this book you learn how to combine all the robot parts into assemblies and then run motion analysis You will finish off your project by creating 3D animations of your robot in action There are many books that show you how to perform individual tasks with SolidWorks but this book takes you through an entire project and shows you the complete engineering process By the end of this book you will have modeled and assembled nearly all the parts that make up the TAMIYA Mechanical Tiger and can start building your own robot

SolidWorks 2013, 2013 *Learning Automating Design with SolidWorks and DriveWorksXpress* Matt Perez, 2014 In this Automating Design with SolidWorks and DriveWorksXpress training course expert author Matt Perez will teach you all about design automation using DriveWorksXpress which is found inside SolidWorks This course is designed for users that have some SolidWorks experience but no experience with DriveWorks is required You will start by learning how to gain access to DriveWorksXpress and then jump into seeing how to set up the model Matt will then show you how to create a database and teaches you about the capture process including how to capture models dimensions and features This video tutorial will also cover topics such as forms rules how to run and check your model and capturing and working with assemblies Once you have completed this computer based training course you will fully understand the process of using DriveWorksXpress and be able to apply this knowledge to your own design



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