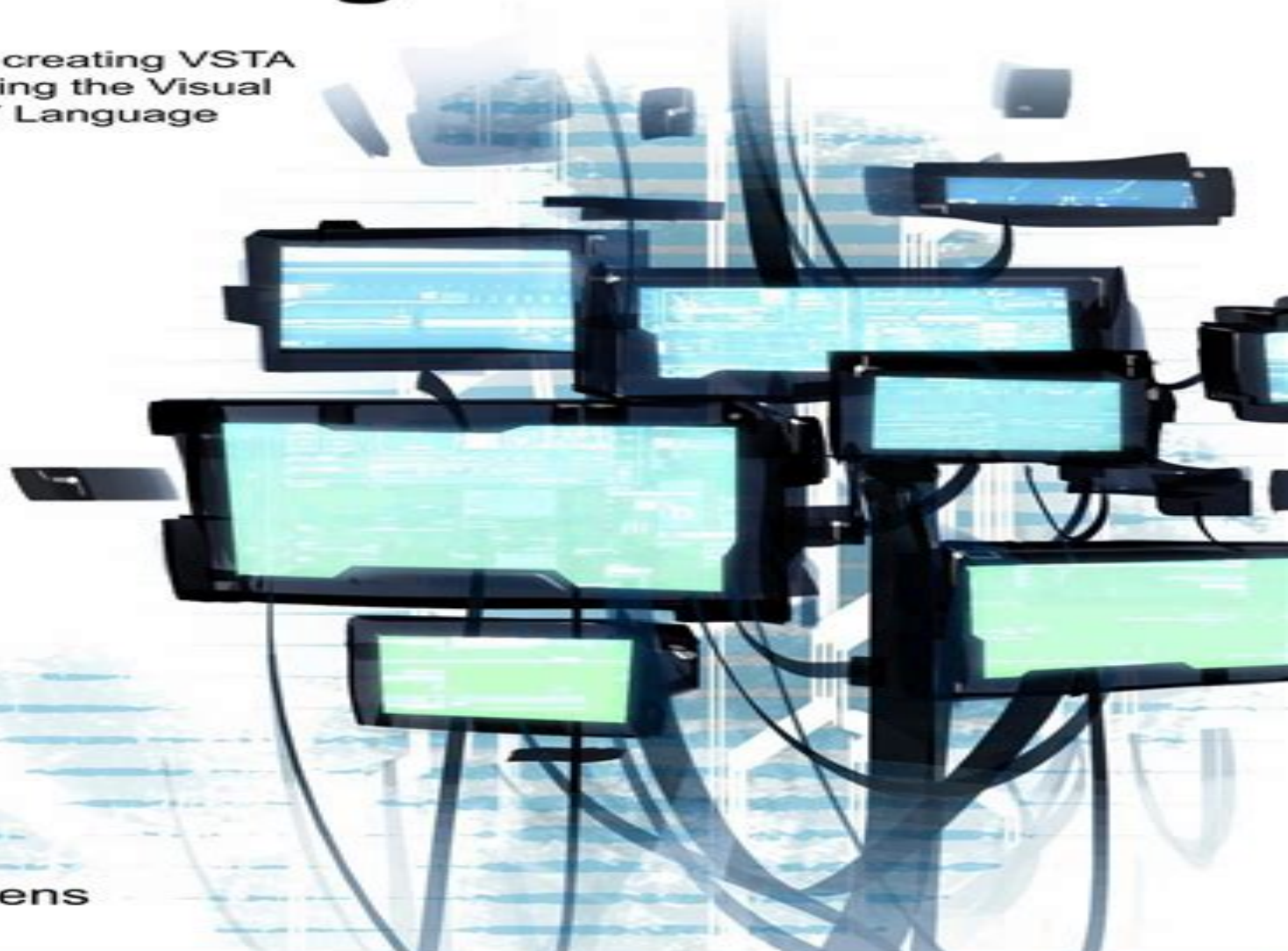


Automating SolidWorks® 2013 Using Macros

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



Mike Spens

Automating Solidworks 2013 Using Macros

Matt Perez



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for SOLIDWORKS following best practices and using well written code then this is the perfect book for you **Automating SolidWorks 2011 Using Macros** Mike Spens, 2010 Automating SolidWorks 2011 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 Using this book you will learn how to 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 *Automating SolidWorks 2009 Using Macros* Mike Spens, 2008-11 Automating SolidWorks 2009 Using Macros is designed as a tutorial to help beginner to intermediate programmers develop macros for SolidWorks and SolidWorks Workgroup PDM This new edition focuses primarily on the new 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 *Automating SOLIDWORKS 2025 Using Macros* Mike Spens, Learn how to save time by automating repetitive work Teaches you how to develop macros for SOLIDWORKS the SOLIDWORKS Document Manager and SOLIDWORKS PDM Professional Programming experience is not required Covers many of the major API functions through practical use cases Focuses on the Visual Studio Tools for Applications macro interface Engineers working with SOLIDWORKS are often faced with tedious repetitive work that can consume a lot of time but it doesn't have to be this way One of the most exciting aspects of SOLIDWORKS is its robust programming interface or API The SOLIDWORKS API allows you to write code that can perform almost any series of actions for you SOLIDWORKS was built from the ground up to automate and in this book you will learn how to take advantage of these powerful tools to speed up your work Automating SOLIDWORKS 2025 Using Macros is designed as a tutorial to help beginner to intermediate programmers develop macros for SOLIDWORKS Experience with programming isn't required The book starts with a chapter on the fundamentals of Visual Basic NET and the SOLIDWORKS API to make the learning process easier for beginners The rest of the book introduces you to developing macros using the SOLIDWORKS API The book concludes with a chapter dedicated to some of the author's favorite source code for you to use as the basis for typical automation procedures 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 will teach you the fundamentals of Visual Basic NET as well as SOLIDWORKS SOLIDWORKS PDM Professional SOLIDWORKS Document Manager and Excel API functions Author Mike Spens has been professionally developing macros for

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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

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