



# SolidWorks API

## 1: Using the Macro Recorder

- Macro Recording
- Macro Toolbar
- Understanding How Macro Code Works
- Understanding How to Call Members on API Interfaces
- Passing Parameters
- Cleaning Up Code
- Adding Forms to a Macro

## 2: The API Object Model

- SolidWorks API Object Model
- Application Objects
- Case Study: Connecting to New Documents
- Case Study: Connecting to Existing Documents

## 3: Setting System Options and Document Properties

- User Preferences - System Options
- User Preferences - Document Properties
- Locating the Correct APIs and Enumeration Values
- UserPreference Tables For System Options
- UserPreference Tables For Document Properties

## 4: Automating Part Design

- Case Study: Automation Tool for Parts

## 5: Assembly Automation

- Case Study: Automation Tool for Assemblies

## 6: Drawing Automation

- Case Study: Automating Drawing Creation

## 7: Selection and Traversal Techniques

- Case Study: Programming With a Selected Object
- The SolidWorks BREP Model
- Case Study: Body and Face Traversal
- Case Study: Feature Manager Traversal

## 8: Adding Custom Properties and Attributes

- Case Study: Custom Properties
- Case Study: Configurations With Custom Properties
- Case Study: File Summary Information
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- The Attribute Objects
- Case Study: Face Attributes

## 9: The SolidWorks API SDK

- The API SDK
- Case Study: Creating a VB.NET Add-In
- Case Study: Creating a C# Add-In
- Case Study: C++ Add-Ins
- Choosing a Programming Language

## 10: Customizing the SolidWorks User Interface

- Case Study: Customizing the UI With VB.NET
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- Property Pages
- Property Page Groups and Controls
- Removing Menus and Toolbars
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## 11: Notifications

- Notifications
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