

# Expert Advisor Programming For Metatrader 4 Creating Automated Trading Systems In The Mql4 Language

A leading trainer of traders explains the process and pitfalls to trading success. While advances in trading tools and technology have increased the potential for capturing profits, the fact is that if you're mentally unprepared to enter today's markets, you'll probably end up making many costly mistakes. Nobody understands this better than Adrienne Toghraie, an expert Trader's Success Coach and master practitioner of Neuro-Linguistic Programming (NLP) for the financial and business communities. Now, with *Trading on Target*, she shares her extensive experiences—as well as the stories of real-world traders—to help you overcome the self-imposed limitations keeping you from reaching trading success. Engaging and informative, this accessible guide takes a detailed look at what you need to become a psychologically, and emotionally, mature trader. Page by page, Toghraie pulls it all together and reveals the attitudes, perceptions, and insights that will allow you to excel at this difficult endeavor. Along the way, she also provides practical solutions to dealing with the oldest

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hang-ups commonly found among those who aspire to succeed in trading, and offers advice on how to gain and maintain self-discipline in today's dynamic markets. Shows how to overcome the various obstacles to becoming a top trader  
Explores how you can let go of emotional states that can affect your trading  
Offers insights on taking the right action and making better trading decisions  
Reveals how to expand yourself in order to reach the next level of trading success  
Wherever you are in your ability as a trader, there is always room to grow. Adrienne Toghraie has seen this firsthand during her twenty-one years in the business of working on trader discipline. With this book, she'll help you develop a winning trading mindset and put you in a better position to break through the barriers that have been holding you back.

An insider's view of how to develop and operate an automated proprietary trading network  
Reflecting author Eugene Durenard's extensive experience in this field, Professional Automated Trading offers valuable insights you won't find anywhere else. It reveals how a series of concepts and techniques coming from current research in artificial life and modern control theory can be applied to the design of effective trading systems that outperform the majority of published trading systems. It also skillfully provides you with essential information on the practical coding and implementation of a scalable systematic trading architecture. Based

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on years of practical experience in building successful research and infrastructure processes for purpose of trading at several frequencies, this book is designed to be a comprehensive guide for understanding the theory of design and the practice of implementation of an automated systematic trading process at an institutional scale. Discusses several classical strategies and covers the design of efficient simulation engines for back and forward testing Provides insights on effectively implementing a series of distributed processes that should form the core of a robust and fault-tolerant automated systematic trading architecture Addresses trade execution optimization by studying market-pressure models and minimization of costs via applications of execution algorithms Introduces a series of novel concepts from artificial life and modern control theory that enhance robustness of the systematic decision making—focusing on various aspects of adaptation and dynamic optimal model choice Engaging and informative, Proprietary Automated Trading covers the most important aspects of this endeavor and will put you in a better position to excel at it.

Finally, the first comprehensive guide to MQL programming is here! Expert Advisor Programming guides you through the process of developing robust automated forex trading systems for the popular MetaTrader 4 platform. In this book, the author draws on several years of experience coding hundreds of expert

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advisors for retail traders worldwide. You'll learn how to program these common trading tasks, and much more:

- Place market, stop and limit orders.
- Accurately calculate stop loss and take profit prices.
- Calculate lot size based on risk.
- Add flexible trailing stops to your orders.
- Count, modify and close multiple orders at once.
- Verify trading conditions using indicators and price data.
- Create flexible and reusable source code functions.
- Add advanced features such as timers, email alerts and Martingale lot sizing.
- Avoid common trading errors and easily troubleshoot your programs.
- Adjustments for fractional pip brokers and FIFO.

Plus, learn how to create your own custom indicators and scripts! Whether you're a beginner or an experienced programmer, Expert Advisor Programming can help you realize your automated trading ideas in the shortest amount of time. This book features dozens of code examples with detailed explanations, fully-functioning example programs, and reusable functions that you can use in your own expert advisors!

You will discover step by step along with clear visuals on how to profit with MT4 programming. Automated trading is often shrouded in mystery along with many misconceptions about who it can benefit. We peel away the layers of this misunderstood world in the book. The book covers the following topics and much more: Gives an overview of trading the financial markets Understanding of how

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quant trading works  
Understanding of basic of the programming language -  
declare variables  
Understanding of the script  
Make a script  
Create an indicator  
Make building blocks of different functions  
Check for trade (trade open rule)  
Check for trade (close rule)  
Check for breakeven  
Check for trailing stop  
How to design a trading system

Are you fed up with staring at forex, stock charts/graphs for long periods of time with mechanical trading rules that you know can be implemented by a robot? In this short and concise book written for simplicity, you will learn the basics of algorithmic trading and how to create your own automated traders. You might other wise know them as trading robots or Expert Advisors (EAs). We will provide you with the fundamental building blocks to get you up and running in creating your own Expert Advisors in no time. We cover the following topics: Introduction to Forex Expert Advisor Programming  
Installing MetaTrader  
Our First Expert Advisor  
Using If-Else in our Expert Advisor  
Detecting Moving Averages Crossover  
Using the Crossover to Execute Orders  
Closing Orders  
Testing your Expert Advisor  
Using other Expert Advisors  
Expert instruction on the practical applications of candlestick charting  
Candlestick charting is more popular than ever before, with a legion of new traders and investors being introduced to the concept by some of today's hottest investment

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gurus. Having introduced the candlestick technique to the West through two of his bestselling books, Steve Nison is regarded as a luminary in the field of candlestick charting. In his new venture, The Candlestick Course, Nison explains patterns of varying complexity and tests the reader's knowledge with quizzes, Q&As, and intensive examples. In accessible and easy-to-understand language, this book offers expert instruction on the practical applications of candlestick charting to give every level of investor a complete understanding of this proven, profitable, and time-tested investing technique. Straightforward answers quickly clarify this easy-to-use charting method. This guide will allow readers to recognize and implement various candlestick patterns and lines in today's real-world trading environment—giving them a noticeable edge in their trading activities

### Development of indicators and advisors using the MQL5 programming language for the platform MetaTrader 5

How to trade the markets by integrating Chaos Theory with market sentiment In the first edition of Trading Chaos, seasoned trader and psychologist Bill Williams detailed the potential of Chaos Theory—which seeks to make the unpredictable understandable—in trading and it revolutionized financial decision-making. The Second Edition of Trading Chaos is a cutting edge book that combines trading psychology and Chaos Theory and its particular effect on the markets. By

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examining both of these facets in relation to the current market, readers will have the best of all possible worlds when trading. Bill Williams, PhD, CTA (Solana Beach, CA), is President of Profitunity.com, a leader in the field of education for traders and investors. Justine Gregory-Williams (Solana Beach, CA) is President of the Profitunity Trading Group and a full-time trader.

Trading for a Living Successful trading is based on three M's: Mind, Method, and Money. Trading for a Living helps you master all of those three areas: \* How to become a cool, calm, and collected trader \* How to profit from reading the behavior of the market crowd \* How to use a computer to find good trades \* How to develop a powerful trading system \* How to find the trades with the best odds of success \* How to find entry and exit points, set stops, and take profits Trading for a Living helps you discipline your Mind, shows you the Methods for trading the markets, and shows you how to manage Money in your trading accounts so that no string of losses can kick you out of the game. To help you profit even more from the ideas in Trading for a Living, look for the companion volume--Study Guide for Trading for a Living. It asks over 200 multiple-choice questions, with answers and 11 rating scales for sharpening your trading skills. For example: Question Markets rise when \* there are more buyers than sellers \* buyers are more aggressive than sellers \* sellers are afraid and demand a premium \* more shares or contracts are bought than sold \* I and II \* II and III \* II and IV \* III and IV Answer B. II and III. Every change in price reflects what happens in the battle between

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bulls and bears. Markets rise when bulls feel more strongly than bears. They rally when buyers are confident and sellers demand a premium for participating in the game that is going against them. There is a buyer and a seller behind every transaction. The number of stocks or futures bought and sold is equal by definition.

Explains the importance of detailed studies on price patterns. Attempts to find forecastable events based on the relation between opening, closing, high and low prices. Includes computer-tested answers to many common short term trading questions. Consists of 5 sections: 1) opening range breakouts, 2) short-term price patterns, 3) patterns of expansion and contraction, 4) combination of price patterns with expansion and contraction patterns, and 5) openings and closings that occur in various segments of a price bar; includes the results of computer analysis for each topic. We highly recommend this book for the serious short-term trader.

Cutting-edge insight from the leader in trading technology In *Cybernetic Analysis for Stocks and Futures*, noted technical analyst John Ehlers continues to enlighten readers on the art of predicting the market based on tested systems. With application of his engineering expertise, Ehlers explains the latest, most advanced techniques that help traders predict stock and futures markets with surgical precision. Unique new indicators and automatic trading systems are described in text as well as Easy Language and EFS code. The approaches are universal and robust enough to be applied to a full range of market conditions. John F. Ehlers (Santa Barbara, CA) is President of MESA



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Software ([www.mesasoftware.com](http://www.mesasoftware.com)) and has also written Rocket Science for Traders (0-471-40567-1) as well as numerous articles for Futures and Technical Analysis of Stocks & Commodities magazines.

The first guide to programming in MQL5 is here "Expert Advisor Programming for MetaTrader 5" is a practical guide to creating automated trading strategies in the MQL5 language. Take advantage of MetaTrader 5's new features and take your trading to the next level You'll learn how to program expert advisors quickly and easily using a ready-made framework created by an experienced MQL programmer. This book will teach you the following concepts: Learn the basics of MQL5, including variables and data types, operators, functions, event handlers, and object-oriented programming. Place, modify and close market and pending orders. Calculate, verify and add stop loss and take profit prices to an open position. Add a flexible trailing stop and/or break even stop to your strategy. Manage your trade risk with money management. Use pending orders to scale in and out of positions. Use price, time and indicator data in your expert advisors. Control program execution by trading on new bar open, and add flexible trade timers to your strategies. Walk through the creation of several basic trading strategies from start to finish. Inform the user with dialog boxes, email alerts, mobile notifications and sounds. Draw trend lines, arrows and text labels on the chart. Read and write data to CSV files. Learn the basics of creating indicators, scripts and libraries in MetaEditor. Debug, test and optimize your trading strategy. And much more Whether you're an

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experienced programmer moving from MQL4, or a novice just starting with MQL5, this book will give you the foundation to quickly program fully-featured and robust trading systems. All programs and source code files featured in the book are available for download at the book's official website at <http://www.expertadvisorbook.com>

While most books on trading deal with general concepts and shy away from specifics, *Forex Patterns and Probabilities* provides you with real-world strategies and a rare sense of clarity about the specific mechanics of currency trading. Leading trading educator Ed Ponsi will explain the driving forces in the currency markets and will provide strategies to enter, exit, and manage successful trades. Dozens of chart examples and explanations will guide you each step of the way and allow the reader to "look over the shoulder" of a professional trader hard at work at his craft. This book provides traders with step-by-step methodologies that are based on real market tendencies. The strategies in this book are presented clearly and in detail, so that anyone who wishes to learn how to trade like a professional. It is written in a style that is easy to understand, so that the reader can quickly learn and use the techniques provided.

Use ACI fabrics to drive unprecedented value from your data center environment. With the Cisco Application Centric Infrastructure (ACI) software-defined networking platform, you can achieve dramatic improvements in data center performance, redundancy, security, visibility, efficiency, and agility. In *Deploying ACI*, three leading Cisco experts

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introduce this breakthrough platform, and walk network professionals through all facets of design, deployment, and operation. The authors demonstrate how ACI changes data center networking, security, and management; and offer multiple field-proven configurations. Deploying ACI is organized to follow the key decision points associated with implementing data center network fabrics. After a practical introduction to ACI concepts and design, the authors show how to bring your fabric online, integrate virtualization and external connections, and efficiently manage your ACI network. You'll master new techniques for improving visibility, control, and availability; managing multitenancy; and seamlessly inserting service devices into application data flows. The authors conclude with expert advice for troubleshooting and automation, helping you deliver data center services with unprecedented efficiency. Understand the problems ACI solves, and how it solves them Design your ACI fabric, build it, and interface with devices to bring it to life Integrate virtualization technologies with your ACI fabric Perform networking within an ACI fabric (and understand how ACI changes data center networking) Connect external networks and devices at Layer 2/Layer 3 levels Coherently manage unified ACI networks with tenants and application policies Migrate to granular policies based on applications and their functions Establish multitenancy, and evolve networking, security, and services to support it Integrate L4–7 services: device types, design scenarios, and implementation Use multisite designs to meet rigorous requirements for redundancy and business continuity Troubleshoot and

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monitor ACI fabrics Improve operational efficiency through automation and programmability

"Trading Systems" offers an insight into what a trader should know and do in order to achieve success on the markets.

This special combination book, Expert Advisor Programming and Advanced Forex Strategies, will provide you with a solid foundation of the techniques required for profiting by combining expert advisor programming with advanced forex strategies.

When finished you will have a deep understanding of the forex market from several angles. The emphasis throughout is on practical applications. Part 1: Expert Advisor Programming for Beginners: Maximum MT4 Forex Profit Strategies You will discover step by step along with clear visuals on how to profit with MT4 programming.

Automated trading is often shrouded in mystery along with many misconceptions about who it can benefit. We peel away the layers of this misunderstood world in the book.

Part 2: Expert Advisor and Forex Trading Strategies: Take Your Expert Advisor and Forex Trading To The Next Level You will learn advanced trading strategies along with easy to understand visuals on how to increase profits. This is a unique combination of manual and automated trading. Therefore it is for the intermediate to advanced manual trader and those seeking an insight into programmed trading.

Learn to build configuration file readers, data readers, model-driven code generators, source-to-source translators, source analyzers, and interpreters. You don't need a

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background in computer science--ANTLR creator Terence Parr demystifies language implementation by breaking it down into the most common design patterns. Pattern by pattern, you'll learn the key skills you need to implement your own computer languages. Knowing how to create domain-specific languages (DSLs) can give you a huge productivity boost. Instead of writing code in a general-purpose programming language, you can first build a custom language tailored to make you efficient in a particular domain. The key is understanding the common patterns found across language implementations. Language Design Patterns identifies and condenses the most common design patterns, providing sample implementations of each. The pattern implementations use Java, but the patterns themselves are completely general. Some of the implementations use the well-known ANTLR parser generator, so readers will find this book an excellent source of ANTLR examples as well. But this book will benefit anyone interested in implementing languages, regardless of their tool of choice. Other language implementation books focus on compilers, which you rarely need in your daily life. Instead, Language Design Patterns shows you patterns you can use for all kinds of language applications. You'll learn to create configuration file readers, data readers, model-driven code generators, source-to-source translators, source analyzers, and interpreters. Each chapter groups related design patterns and, in each pattern, you'll get hands-on experience by building a complete sample implementation. By the time you finish the book, you'll know how to solve most common language implementation

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problems.

The first and only book of its kind, Automated Options Trading describes a comprehensive, step-by-step process for creating automated options trading systems. Using the authors' techniques, sophisticated traders can create powerful frameworks for the consistent, disciplined realization of well-defined, formalized, and carefully-tested trading strategies based on their specific requirements. Unlike other books on automated trading, this book focuses specifically on the unique requirements of options, reflecting philosophy, logic, quantitative tools, and valuation procedures that are completely different from those used in conventional automated trading algorithms. Every facet of the authors' approach is optimized for options, including strategy development and optimization; capital allocation; risk management; performance measurement; back-testing and walk-forward analysis; and trade execution. The authors' system reflects a continuous process of valuation, structuring and long-term management of investment portfolios (not just individual instruments), introducing systematic approaches for handling portfolios containing option combinations related to different underlying assets. With these techniques, it is finally possible to effectively automate options trading at the portfolio level. This book will be an indispensable resource for serious options traders working individually, in hedge funds, or in other institutions.

**STUDY GUIDE FOR Come Into My Trading Room A Complete Guide to Trading You**

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can read *Come Into My Trading Room: A Complete Guide to Trading* in a few days, but you cannot expect to master every aspect of that invaluable book until you work through it. *Study Guide for Come Into My Trading Room: A Complete Guide to Trading* will help you learn the profitable methods and techniques of *Come Into My Trading Room* before risking a dollar in the markets. *Study Guide for Come Into My Trading Room: A Complete Guide to Trading* parallels the actual book, challenging you at every step with questions that make you focus on all the important areas of trading. Some tests are pencil-and-paper, others have you work with charts, but all prepare you to make crucial decisions. This *Study Guide* will: Quiz you on the essentials of trading—choosing the markets to trade, finding holes in the Efficient Market Theory, and overcoming common obstacles to success Make you aware of psychological blind spots that lead to losing Test your knowledge of charting and computerized indicators Explore trading systems, day-trading, and advanced concepts, such as Impulse trading and SafeZone stops Ask questions about money management, record-keeping, and managing time Challenge you with eight case studies where you choose entry and exit points and get graded for your performance The best trading strategies, techniques, and tools are only as good as your understanding of them. Pick up this *Study Guide for Come Into My Trading Room: A Complete Guide to Trading* and convert Dr. Elder's methods into your own powerful and profitable tools.

"It's hard to talk clearly about investing and make sense to ordinary readers at the same

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time. Katsenelson gives a lucid explanation of today's markets with sound advice about how to make money while avoiding the traps that the market sets for exuberant bulls and frightened bears alike." — Thomas G. Donlan, Barron's "A thoroughly enjoyable read. Provides a clear framework for equity investing in today's 'sideways' and volatile markets useful to everyone. Clear thinking and clear writing are not often paired - well done!" — Dick Weil, CEO, Janus Capital Group "The bible for how to invest in the most tumultuous financial market environment since the Great Depression. A true guidebook for how to build wealth prudently." — David Rosenberg, Chief Economist & Strategist, Gluskin Sheff + Associates Inc. "A wonderful, grounded read for new and seasoned investors alike, Katsenelson explains in plain English why volatility and sideways markets are a stock picker's best friend." — The Motley Fool, [www.Fool.com](http://www.Fool.com) Praise for Active Value Investing "This book reads like a conversation with Vitaliy: deep, insightful, inquisitive, and civilized." — Nassim Nicholas Taleb, author of *The Black Swan* "Thoroughly enjoyable . . . for the thoughtful and often entertaining way in which it is delivered. . . Katsenelson takes his reader step by step into the mind of the value investor by relating, in a fictional addendum to *Fiddler on the Roof*, the story of Tevye's purchase of Golde, the cow. He also describes his own big-time gambling evening (he was willing to lose a maximum of \$40) and that of a half-drunken, rowdy fellow blackjack player to stress the importance of process. He then moves on to the fundamental principles of active value investing. What differentiates this book from so



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many others on value investing is that it describes, sometimes through the use of case studies, the thinking of a value investor. Not just his models or his metrics but his assessments. Katsenelson is an empiricist who weighs facts, looks for contraindications, and makes decisions. He makes value investing come alive. This may be a little book, but it's packed with insights for both novices and experienced investors. And it is a delight to read." —Seeking Alpha

A powerful new way to navigate today's unprecedented market conditions "Bill Williams' pioneering application of chaos theory to the financial markets is leading technical analysis into the twenty-first century and beyond. New Trading Dimensions presents a complete, highly original, and intriguing trading method with clear, detailed illustrations, and challenging practice pages. Bill's wisdom, technical expertise, and skillful teaching style make this a revolutionary must-have new book for stock and commodity traders." -Tom Bierovic, Product Manager for User Education, Omega Research, Inc. "Bill hits the nail on the head. The essence of successful trading is a combination of knowing who you are and allowing the market to reveal its secrets. Bill Williams has the gift of explaining these concepts better than anyone I know. This is a compelling work that belongs in every trader's library." -George Angell, author, Profitable Day-Trading with Precision "Bill Williams is one of the great educators of our time. He freely shares his knowledge and experience in this inexpensive book. This book is required reading for all market technicians. The principles are sound as we have tested them with our

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software." -John Hill, President, Futures Truth, Co. "Bill Williams has always been an excellent teacher, taking complex terms and concepts and translating them into a clear, commonsense approach to trading. This book provides a complete trading program that reflects Bill's years of wisdom and experience in the marketplace." -Darrell Jobman, Editorial Consultant and former Editor-in-Chief of Futures magazine

As today's market environment continues to change dramatically, more and more traders are discovering that traditional forecasting methods-pure technical analysis and fundamental analysis-just do not work. Sending out contradictory messages, these opposing schools of thought leave investors baffled about the future direction of the market, and consequently, at a loss as to how to tailor their trading systems. As a result, many practitioners have now turned to a new forecasting "cocktail" that combines traditional charting methodologies with chaos theory and human psychology. In this groundbreaking book, Bill Williams, a seasoned trader at the forefront of this dynamic new approach, explains exactly what it is, how it works in current stock and commodity markets, and how to use it to your advantage. Based on human nature rather than the vagaries of the market, the new trading dimension works on the premise that we trade not the market, but our own belief system. By assessing what your personal biases are, you can determine how they influence your ultimate success-or failure-and then adjust your trading strategies accordingly. Written by an expert in the field who has been featured in Futures, Worth, Success, and other prominent publications, New Trading

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Dimensions takes the latest in scientific knowledge about human behavior and applies it directly to the fields of stock and commodity investing and trading. With straightforward guidelines, it shows you how to adopt the right attitude toward the behavior of the market and use the right tools (ATTITOOLS) for profitable trading. Packed with practice exercises, specific applications to different types of investments, and a detailed review of important market signals, here's where you'll learn how to:

- \* Discover what the market wants and align your own beliefs with the direction of the market
- \* Apply chaos theory to trading and investing
- \* Use Williams' "Market Alligator" for analyzing and profiting from the markets
- \* Employ a multidimensional trading program that includes such tools and techniques as fractals, oscillators, AC signals, psychological zones, and balance lines
- \* Exit trades in a timely fashion to reap high returns

Drawing on the author's more than forty years of experience as both a successful trader and seasoned trainer, this invaluable guide offers a breakthrough method that has proven its ability to turn investors into consistent winners.

Praise for Trade Like a Pro "Noble's commitment to the individual trader is exactly what traders need during these volatile times. He has knowledge that spans across markets and is worldwide. He is a valued contributor to the TraderPlanet.com community, and this book further demonstrates his dedication to educating traders and helping them become more successful." —Lane J. Mendelsohn, Publisher, TraderPlanet.com "In a time when, on a global level, important things are happening to the financial industry,

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when new profit opportunities as well as risks are revealed, the book Trade Like a Pro offers a complete picture concerning the risk administration techniques." —Teodor Ancuta, President and General Manager, Sibiu Stock Exchange "Trade Like a Pro is a comprehensive presentation of all the basic trading strategies that belongs in every investor's library. Whether your specialty is futures, options, or stocks—or, for that matter, a combination of all three—you will find yourself going back to this valuable reference guide again and again. Everything rings true. Moreover, the author gives you the pros and cons of each respective strategy without imposing his own point of view. Well researched and presented." —George Angell, author of Small Stocks for Big Profits and Winning in the Futures Market "Armed with good intentions, most new traders are unaware of the realities involved. Although there is often the belief among novice traders that profitability will be easy, the evidence strongly suggests otherwise. In his new book, Trade Like a Pro: 15 High-Profit Trading Strategies, Noble DraKohn offers a thoughtful approach to making the transition from unsuccessful retail trader to the arena of the professional, which is imperative for lasting success as a trader." —Ron Rossway, President, Denver Trading Group

The first guide to programming in MQL5 is here! Expert Advisor Programming for MetaTrader 5 is a practical guide to creating automated trading strategies in the MQL5 language. Take advantage of MetaTrader 5's new features and take your trading to the next level! You'll learn how to program expert advisors quickly and easily using a ready-

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made framework created by an experienced MQL programmer.

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Which one of the following two offers is more appealing to you? Making a 70% return on an easy to understand, short time investment; Joining a coin-tossing game in which when you loose you pay 1 euro and when you win you gain 70 cents. Most people take the first offer and stay away from the second one. And yet ... they are basically the same! Welcome to the wonderful dual world of Binary Options! You can play binary options merely for entertainment and have great fun. You might even win a lot of money, provided that you get lucky and do not stay long, just like in Vegas... Or, you can trade binary options for fun and profit. This is what this book is about: it is a practical step-by-step guide that shows you how to trade systematically, how to identify profitable trading strategies, and how to select and use a sound money management system. In short, how to have fun and make money! Trading Binary Options for Fun and Profit: A Guide for Speculators walks you through what you need to know and do to trade binary options profitably. Since this it is not a work of fiction you will not be shown the magic formula that will make you rich in the blink of an eye. Rather you will gain the fundamental knowledge and tools needed to become a successful trader. You will learn to develop your own strategies for trading binary options profitably. Actually, a lot of what is covered here is easily adaptable to other types of trading such as the stock and

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Forex markets and even to sports betting. That said you do not need to have any prior knowledge of binary options, trading or math. Just start reading at the beginning and proceed sequentially. All what you will need to know is clearly spelled out. If you happen to have previous knowledge of a topic you can proceed directly to the next one without losing context. However if you are in doubt it is better to read through. This book is fluff free so it won't waste your time. Trading Binary Options for Fun and Profit: A Guide for Speculators starts by defining what a binary option is and how it works, the main types of trades available and the criteria you may want to consider when selecting a binary options broker. Then it proceeds to explain why using trading strategies makes sense and where you can find ideas to create or adapt them. Ultimately you will want to know if your trading strategy makes money so it also shows you how to calculate the magic number that tells it all: its Expectancy. Since trading strategies are built upon technical indicators a very brief overview of Technical Analysis follows and some very common indicators are presented. Next explains the MetaTrader platform and shows you how it can serve as your own cost-free research assistant and trading signal provider. It then goes over the details of developing and improving a trading strategy using Excel and Expert Advisors (no programming knowledge needed). Money Management comes next: you will get to know several systems and in the process learn how easy it is to do a Monte Carlo simulation to test them (or to test anything else). The book ends with an overview of the complete methodology and leaves you

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with some final trading suggestions. Finally, in the Appendixes you will find several resources that are made available for free to the buyers of this book: Six spreadsheets containing templates for the Martingale, Paroli, D'Alembert, Fibonacci, Percentage of Bankroll and Kelly money management systems; Examples of trading strategies that backtested with winning percentages above 60%; An Expert Advisor that pops-out an alert window and plays a sound on MetaTrader each time a new trade is opened. You will discover advanced trading strategies along with easy to understand visuals on how to increase profits. This book is a unique combination of manual and automated trading. Therefore it is for the intermediate to advanced manual trader and those seeking an insight into programmed trading. As always Wayne writes in the direct and personal fashion that appeals to traders who want to get to the point. This book can be read with his Expert Advisor Programming for Beginners: Maximum MT4 Forex Profit Strategies, however, it is not mandatory as this also covers non-programmed trading techniques. The unique book covers the following topics and much more: -Advanced trading strategies for both forex and equities -How to maximize a profitable trade with techniques used by institutional traders -Learn why and how to use volatility to increase your profitability -Understanding fundamentals of the programming language -Learn why and how to use volatility to increase your profitability -Why institutional traders do NOT use stops -What are realistic profits to target in the market -What is the best day of the week to open a trade -See close up the mind set of the big and small traders -Short

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term fast growth vs long term slow growth -How to optimize the break-even function for max profits

In *High Probability Trading Strategies*, author and well-known trading educator Robert Miner skillfully outlines every aspect of a practical trading plan—from entry to exit—that he has developed over the course of his distinguished twenty-plus-year career. The result is a complete approach to trading that will allow you to trade confidently in a variety of markets and time frames. Written with the serious trader in mind, this reliable resource details a proven approach to analyzing market behavior, identifying profitable trade setups, and executing and managing trades—from entry to exit.

all what you need to program mql4 automated trading robot programmer (EA for Metatrader4)

*Beginning C# Object-Oriented Programming* brings you into the modern world of development as you master the fundamentals of programming with C# and learn to develop efficient, reusable, elegant code through the object-oriented programming (OOP) methodology. Take your skills out of the 20th century and into this one with Dan Clark's accessible, quick-paced guide to C# and object-oriented programming, completely updated for .NET 4.0 and C# 4.0. As you develop techniques and best practices for coding in C#, one of the world's most popular contemporary languages, you'll experience modeling a "real world" application through a case study, allowing you to see how both C# and OOP (a methodology you can use with any number of



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languages) come together to make your code reusable, modern, and efficient. With more than 30 fully hands-on activities, you'll discover how to transform a simple model of an application into a fully-functional C# project, including designing the user interface, implementing the business logic, and integrating with a relational database for data storage. Along the way, you will explore the .NET Framework, the creation of a Windows-based user interface, a web-based user interface, and service-oriented programming, all using Microsoft's industry-leading Visual Studio 2010, C#, Silverlight, the Entity Framework, and more.

Easily get started programming using the ultra-versatile C# 7 and Visual Studio 2017 *Beginning C# 7 Programming with Visual Studio 2017* is the beginner's ultimate guide to the world's most popular programming language. Whether you're new to programming entirely, or just new to C#, there has never been a better time to get started. The new C# 7 and Visual Studio 2017 updates feature a number of new tools and features that streamline the workflow, simplify the code, and make it easier than ever to build high-quality apps. This book walks you through everything you need to know, starting from the very basics, to have you programming in no time. You'll learn about variables, flow control, and object oriented programming, then move into Web and Windows programming as well as databases and XML. The companion website provides downloadable code examples, and practical Try It Out sections provide explicit, step-by-step instructions for writing your own useful, customizable code. C# 7

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can be used to build Windows applications, program Windows 10, and write Web apps when used alongside ASP.NET. With programming skills becoming de rigueur in fields far beyond the tech world, C# 7 is a great place to start building versatile, helpful skills. This book gets you started quickly and easily with instruction from a master-team of C# programmers. Learn how to program using the world's leading programming language Build smarter, faster apps using the latest features in C# 7 and Visual Studio 2017 Find and fix bugs sooner, saving headaches down the line Integrate with all .NET Core, Azure applications, cloud services, Docker containers, and more The world of programming can seem intimidating to a beginner, and the prospect of learning a whole new "language" can seem daunting. Beginning C# 7 Programming with Visual Studio 2017 demystifies the process and shows you how to bring your ideas to life. Automated trading in electronic markets is one of the most common and consequential applications of autonomous software agents. Design of effective trading strategies requires thorough understanding of how market mechanisms operate, and appreciation of strategic issues that commonly manifest in trading scenarios. Drawing on research in auction theory and artificial intelligence, this book presents core principles of strategic reasoning that apply to market situations. The author illustrates trading strategy choices through examples of concrete market environments, such as eBay, as well as abstract market models defined by configurations of auctions and traders. Techniques for addressing these choices constitute essential building blocks for the design of trading

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strategies for rich market applications. The lecture assumes no prior background in game theory or auction theory, or artificial intelligence. Table of Contents: Introduction / Example: Bidding on eBay / Auction Fundamentals / Continuous Double Auctions / Interdependent Markets / Conclusion

Evidence-Based Technical Analysis examines how you can apply the scientific method, and recently developed statistical tests, to determine the true effectiveness of technical trading signals. Throughout the book, expert David Aronson provides you with comprehensive coverage of this new methodology, which is specifically designed for evaluating the performance of rules/signals that are discovered by data mining.

Have you ever wanted to fully automate your trading? With algorithmic trading you will be ahead of most traders, because, in a few minutes, you will be able to tell if a strategy is profitable or not. Time and stress, active and passive income, emotionality, are all important aspects that you can improve and balance. 'Mql4 Kit Base' offers you the right tools to start your career as an algorithmic trader in a simple and practical way. Through explanations full of examples, Federico Quintieri offers a step by step path, within everyone's reach and with detailed explanations, which will lead you to the creation of your first expert advisors. The awareness of this world that lies behind the markets will guarantee you an immense advantage, you will begin to make statistically motivated decisions, and this will undoubtedly lead you to an increase in your earnings.

A technical resource for self-directed traders who want to understand the scientific

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underpinnings of the filters and indicators used in trading decisions This is a technical resource book written for self-directed traders who want to understand the scientific underpinnings of the filters and indicators they use in their trading decisions. There is plenty of theory and years of research behind the unique solutions provided in this book, but the emphasis is on simplicity rather than mathematical purity. In particular, the solutions use a pragmatic approach to attain effective trading results. Cycle Analytics for Traders will allow traders to think of their indicators and trading strategies in the frequency domain as well as their motions in the time domain. This new viewpoint will enable them to select the most efficient filter lengths for the job at hand. Shows an awareness of Spectral Dilation, and how to eliminate it or to use it to your advantage Discusses how to use Automatic Gain Control (AGC) to normalize indicator amplitude swings Explains thinking of prices in the frequency domain as well as in the time domain Creates an awareness that all indicators are statistical rather than absolute, as implied by their single line displays Sheds light on several advanced cookbook filters Showcases new advanced indicators like the Even Better Sinewave and Decycler Indicators Explains how to use transforms to improve the display and interpretation of indicators

You will discover step by step along with clear visuals on how to profit with MT4 programming. Automated trading is often shrouded in mystery along with many misconceptions about who it can benefit. We peel away the layers of this

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misunderstood world in the book. The book covers the following topics and much more:

- Gives an overview of trading the financial markets
- Understanding of how quant trading works
- Understanding of basic of the programming language – declare variables
- Understanding of the script
- Make a script
- Create an indicator
- Make building blocks of different functions
- ?Check for trade (trade open rule)
- ?Check for trade (close rule)
- ?Check for breakeven
- ?Check for trailing stop
- ?How to design a trading system (from a to z)

This high-quality reissue of The Taylor Trading Technique contains the same time-honored information it did when it was first published in 1950. Taylor's "Book Method" of trading is based on his insights about the repetition of grain market cycles but applies to the financial futures market and others as well. By identifying moves in the market that might fool less-savvy traders into buying or selling at the wrong time, Taylor's system protects against pitfalls while giving you an edge over other traders. Taylor breaks down market movements into three-day cycles comprising a Buy Day, a Sell Day, and a Sell Short Day. These classifications are used to keep tabs on a market's rhythm and identify the ideal moments at which you should enter and exit. This book will help you understand the ways the market fluctuates and develops, so you can create and apply a plan for how best to trade in it. Combined with a bit of practice and a willingness to learn and experiment, The Taylor Trading Technique will arm you with a strong system for swing trading in financial futures.

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Brand new and fully updated for the latest versions of MetaTrader 4, "Expert Advisor Programming for MetaTrader 4" is a practical guide to programming expert advisors in the MQL4 language. Leverage the latest features imported from the MQL5 language, including object-oriented programming, enumerations, structures and more. This book will teach you the following concepts: The basics of the MQL4 language, including variables and data types, operations, conditional and loop operators, functions, classes and objects, event handlers and more. Place, modify and close market and pending orders. Add a stop loss and/or take profit price to an individual order, or to multiple orders. Close orders individually or by order type. Get a total of all currently opened orders. Work with OHLC bar data, and locate basic candlestick patterns. Find the highest high and lowest low of recent bars. Work with MetaTrader's built-in indicators, as well as custom indicators. Add a trailing stop or break even stop feature to an expert advisor. Use money management and lot size verification techniques. Add a flexible trading timer to an expert advisor. Construct several types of trading systems, including trend, counter-trend and breakout systems. Add alerts, emails, sounds and other notifications. Add and manipulate chart objects. Read and write to CSV files. Construct basic indicators, scripts and libraries. Learn how to effectively debug your programs, and use the Strategy Tester to test your strategies. All of the source code in this book is available for download, including an expert advisor framework that allows you to build robust and fully-featured expert advisors with minimal effort. Whether you're a new

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trader with limited programming experience, or an experienced programmer who has worked in other languages, "Expert Advisor Programming for MetaTrader 4" is the easiest way to get up and running in MQL4.

Your plain-English guide to currency trading *Currency Trading For Dummies* is a hands-on, user-friendly guide that explains how the foreign exchange (ForEx) market works and how you can become a part of it. Currency trading has many benefits, but it also has fast-changing financial-trading avenues. ForEx markets are always moving. So how do you keep up? With this new edition of *Currency Trading For Dummies*, you'll get the expert guidance you've come to know and expect from the trusted *For Dummies* brand—now updated with the latest information on the topic. Inside, you'll find an easy-to-follow introduction to the global/ForEx market that explains its size, scope, and players; a look at the major economic drivers that influence currency values; and the lowdown on how to interpret data and events like a pro. Plus, you'll discover different types of trading styles and make a concrete strategy and game plan before you act on anything. Covers currency trading conventions and tools Provides an insider's look at key characteristics of successful currency traders Explains why it's important to be organized and prepared Offers guidance on trading pitfalls to avoid and risk management rules to live by Whether you're just getting started out in the foreign exchange market or an experienced trader looking to diversify your portfolio, *Currency Trading For Dummies* sets you up for trading success.

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An accessible guide for traders looking to boosting profits in the financial markets from a trading superstar Dubbed “The Messiah of Day Trading” by Dow Jones ,Oliver Velez is a world-renowned trader, advisor, entrepreneur and one of the most sought after speakers and teachers on trading the financial markets for a living. His seminars and workshops have been attended by tens of thousands of traders the world over. In this highly-focused and effective trading resource Velez imparts seven key lessons to further any trader’s education. From market basics to managing trades, trading psychology to investment planning, technical analysis and charts to income versus wealth building, these lessons contain powerful insight and advice far beyond anything you’ll find in most introductory trading books. Each section of the book offers clear examples, concise and useful definitions of important terms Includes more than ninety charts illustrating market challenges and opportunities, how to profit from patterns, and much more Written in the parlance of the day trader’s world, this book offers you the experience of being taught trading skills by the best of the best

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