Quantitative Investing and Building Your Own Quantitative Model

Dr. Paul M. Wendee Intrinsic Value Wealth Report WWW.IVWealthReport.com

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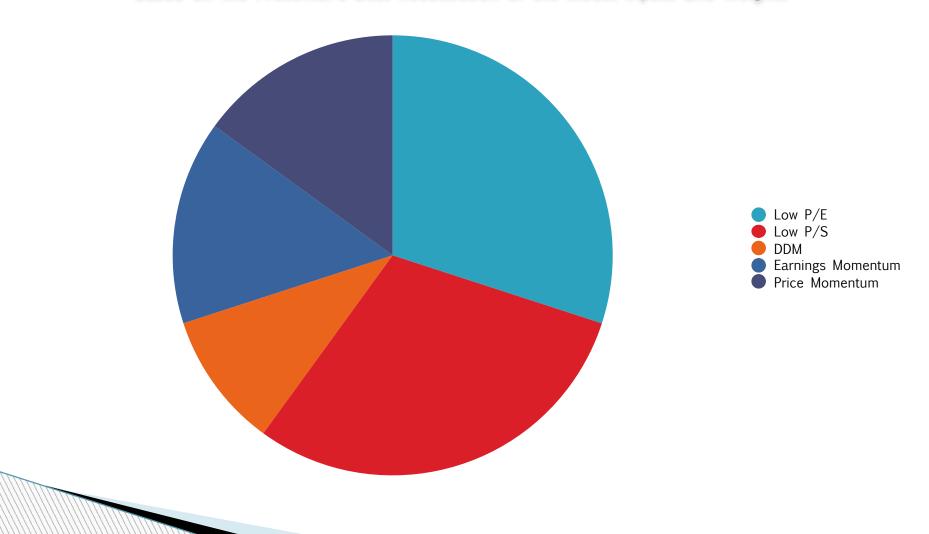
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What Is Quantitative Investing (QI)?

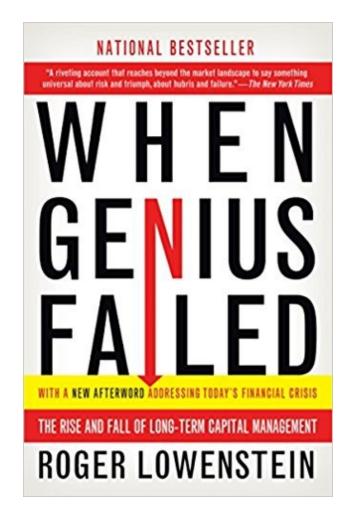
• Quantitative investing involves investment with the assistance of a computer and algorithms. Many quantitative investing models use only a computer; while others use both computers and humans.

Appoximate HarrisBancorp Model

Based on the Presenter's Best Recollection of the Model Inputs and Weights



Remember Long-Term Capital?



Book #9 - Four Easy and Powerful Steps to Building Wealth

FOUR EASY AND POWERFUL STEPS TO BUILDING WEALTH TM

Written and Compiled By
Dr. Paul M. Wendee
Creator of Value Driver Theory

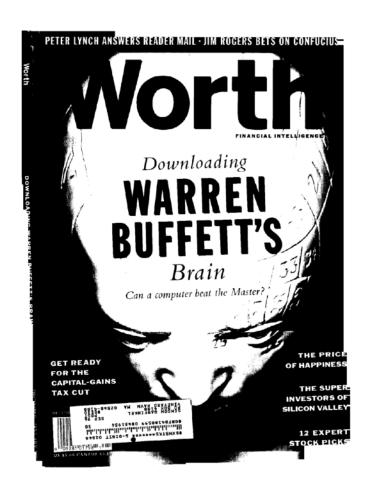
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Downloading Buffet's Brain



The Cassandra Model's "Quant Lite" Approach Beats the Darts

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Pros Whip the Darts Again In Stock-Picking Contest

MONEY MATTERS

By Georgette Jasen

Staff Reperter of THE WALL STREET JOURNAL An oil and natural-gas drilling-services firm propelled a team of investment professionals to an easy victory in this column's latest stock-picking contest. Cal Dive International Inc., Houston,

soared 65.4% from Jan. 12 through June 30, scarce to be four pros to an average 24.9% investment gain. That compares with an average 4.3% loss for a portfolio of four stocks chosen by Wall Street Journal staffers flinging darts at the stock tables and a Average during the same period

Cal Dive was the selection of Paul M. Wendee of Paul M. Wendee & Associates.

search firm in La- INVESTMENT Keim Wilson Associ-ates in New York was in second place with Source Information Management Co., a St. Louis com-

pany that provides retailers with collec-

tion and other services related to single-copy magazine sales. The stock jumped 20% in just under six

Following the custom of this column, Mr. Wendee and Mr. Keim have been invited back for another round against the forces of chance. They will be joined for the coming six months by James E. Grefenstette of Federated Investors Inc. in Pittsburgh and Larry Pugila of T. Rowe Price Associates in Baltimore.

The pros also will be competing against

ing from among 255 e-mail submissions by individual investors.

Fleetwood Enterprises Inc., a Riverside, Calif., maker of recreational vehicles and manufactured housing, is Mr. Wendee's pick for his second round against the darts. The company is "in two industry segments that are both doing well and projected to do well," he says, adding, "they make a real quality product."

Contestants for the Coming Six Months





Experts vs. Darts the Past Six Months



Buy: Floetwood Buy: Fusion Me Federated Investors Buy: Enterprises (FLE) dical Tech. (FSON) Buy: Mastech (MST) Safeway (SWY

| EXPERT | AFFILIATION | RECOMMENDATION Jan. 12-Jun | ORMANCE ² 0 30, 1999 |
|----------------------------------|-----------------------------|-------------------------------|------------------------------------|
| Paul M. Wendee | Paul M. Wender & Associates | Buy: Cal Divir ecornat!! | +65,49 |
| Richard Keim | Keim Wison Associates | Buy: Source Information Mgmt. | +20.0 |
| William P. Miller | American Express Asset Ment | Buy: Computer Sciences | +7.7 |
| Courtney D. Smith | Orbitex Management | Buy: Lowe's | +6.6 |
| Experts as a Group | | | +24.9 |
| Dartboard Portfolio ² | | | - 4.3 |
| Dow Jones Industrial Average | | | +15.8 |

Capital dain or loss only, Calculations by IDD information Services /Tradeline. Phor stocks picked by those of datas Tislamen Energy, up 43,6%; Chesses GCA Rostey, up 9,4%; Modiech Holdings. down 30,5%; Adventos Resteurent Group, down 39,6%.

How Readers Can Play

Reades are initial to subtrit it actors picking the conset beginning it samy Aquest and renning mouth sharker by sending an email message to darthour d'internetive, wellowing by the one of Auty. Ploss stormed by the motions will be executed in a dearing and private disposit the close sold pad by the ones and the distrit. To be digite, market mark provide the come of the close, there was more care from exclusion, comit address and it deplays prohe various. stock, their own name and nome sources.

If the interviewed Also, no brokens or other financial professionals can compute just

Alling to be interviewed Also, no brokens or other financial professionals can compute just amatieurs. The stock must be listed on the New York or American stock exchange or the Naudaq Stock Market. The rink immer market price is \$2, minframm market capitalization is \$50 million, and average daily trading volume must be \$100,000 or more.

change vesterday, the stock is off from its 52-week high of \$41.5625, which Mr. Wendee attributes in part to a slight decline in total earnings for the fiscal year ended April 30. But he notes that the previous year's results included a nonrecurring gain, and earnings from continuing

operations actually rose. Mr. Wendee. whose firm does research for Brockstreet Securities in Irvine, Calif., says he expects Fleetwood's earnings to grow about 15% a year in the next five years. "The company is very undervalued," he says.

Mr. Kelm's choice for the coming six

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Who Is Cassandra?



Why The Cassandra Model Works So Well

- ▶ 1. Superior input
 - The model's own algorithm in generating input
 - Some of the best sources on Wall Street
 - 2. Superior algorithm to sort through the input
 - 3. It's a value stock-picking approach
 - But it can also be described as a GARP approach
 - 4. Most importantly we are picking <u>businesses</u> not stocks

What the Cassandra Model Seeks

- ▶ 1. It looks for companies that are <u>stable</u> and <u>healthy</u>
- 2. It looks for companies that are growing
- ▶ 3. It looks for companies for which we are paying a <u>reasonable or undervalued price</u>



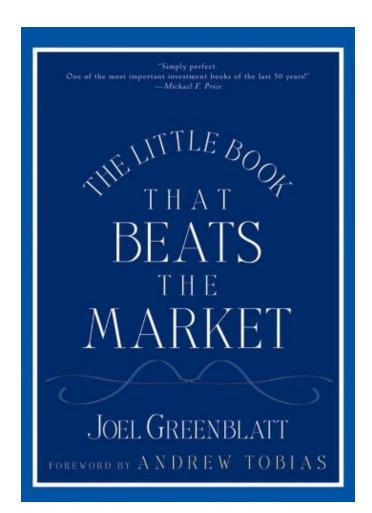
WHAT WORKS ON WALL STREET

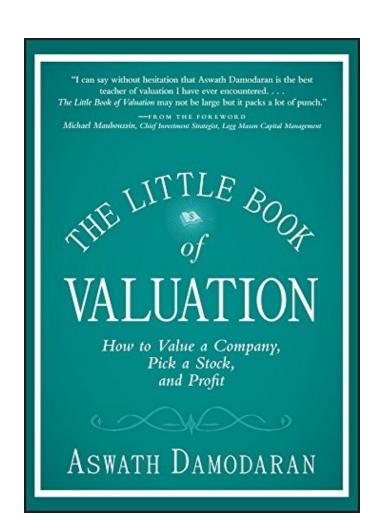
FOURTH EDITION

The Classic Guide to the Best-Performing Investment Strategies of All Time

- + New data that covers the recent market turmoil
- + Innovative new strategies for investing success
 - + New material on sector analysis

JAMES P. O'SHAUGHNESSY





Some Rules

- Systematic
- Disciplined
- Take human emotion out
- But leave human element in
- Be mindful of behavioral finance
- Stay with your strategy
- Take a long-term view
- The rules don't change they are always the same
- Read and study
- Keep it simple
- Remember, you are investing in a business

The Six Essential Concepts of Investing

- ▶ 1. Monster Markets
- 2. An Unfair Competitive Advantage
- 3. A Business Model that Can Make It Work
- 4. The Right People (Management Team)
- 5. The Right Price (Valuation)
- 6. Recognize that Luck (Good and Bad) Does Play a Part

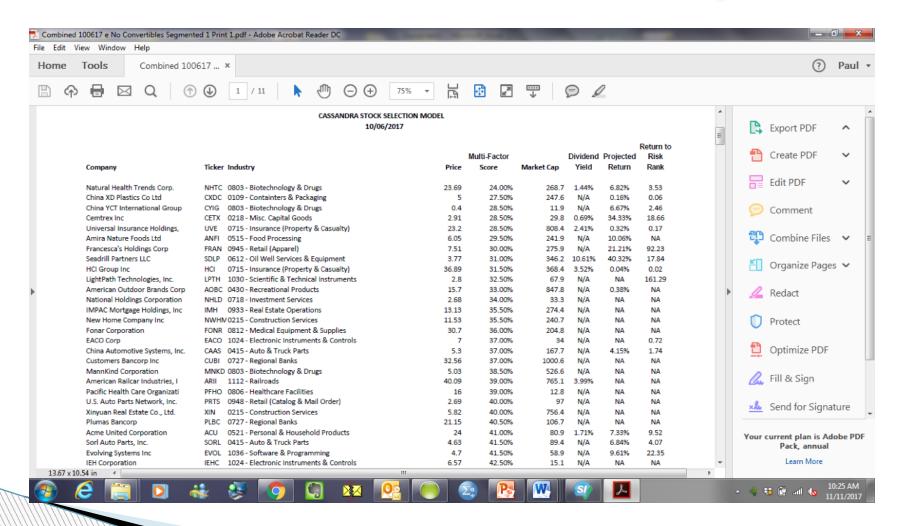
The Well-Kept Secret

- The secret to many of the stock-pickers success is that they are operating in the same pool of successful investment approaches
- Examples:
 - · Value investing
 - · Quantitative investing
 - - Relative Strength
 - Disciplined investment approaches
 - Long-term investing
- ▶ They are using anomalies that work

Three Keys

▶ Key #1 – Use a ranking system

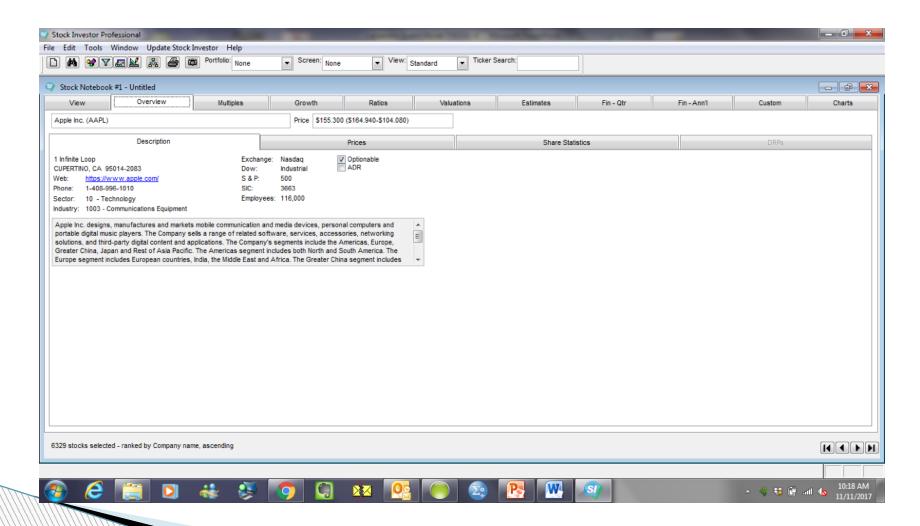
Cassandra Model Output



Three Keys (Continued)

- Key #2 Use a good screener
 - AAII Stock Investor Pro (AAII.com)
 - Note: Stock Investor Pro has built-in screening strategies

AAII Stock Investor Pro



Three Keys (Continued)

- Key #3 Get good input to your model
 - Form 13 filings for hedge funds
 - Value Line
 - Magic Formula
 - Subscribe to newsletters
 - Read the Wall Street Journal and Barron's
 - Subscribe to the Instrinsic Value Wealth Report, IVWealthReport.com, for Cassandra stocks

General Procedure

- Step 1 -Build your model or choose one that is already out there
- Step2 Find candidate stocks from your various sources and input them to your model
- Step 3 Screen them (e.g., P/E, ROE, etc.)
- Step 4 Rank them
- Step 5 Sort them highest to lowest
- Step 6 Pick from best ranked candidates
- Step 7 Run your model periodically to find new candidates and to monitor current holdings
- Step 8 Use your model to self-adjust holdings with the revised rankings

The Steps

- ▶ 1. Decide where on the *Intrinsic Value Wealth Creation Pyramid* you want to be
- ▶ 2. Understand the general quantitative process as shown in the *Investment Research and Management Framework*
- ▶ 3. Decide what kind of an approach you want to use (e.g., Value, Growth, etc.)
- ▶ 4. Construct you screens and process
- ▶ 5. Apply your algorithms and process
- ▶ 6. Use quantitative and human analysis <u>highly</u> <u>suggested</u>

An Example

Let's work through an example using Joel Greenblatt's *Magic Formula*

Concluding Thought

My quantitative model, the Cassandra Model, to me is like Google Maps

I NEVER QUESTION IT!!!

Believe in your model!

Questions?

Dr. Paul M. Wendee, DBA, CFP®, CBI 949-218-7942

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