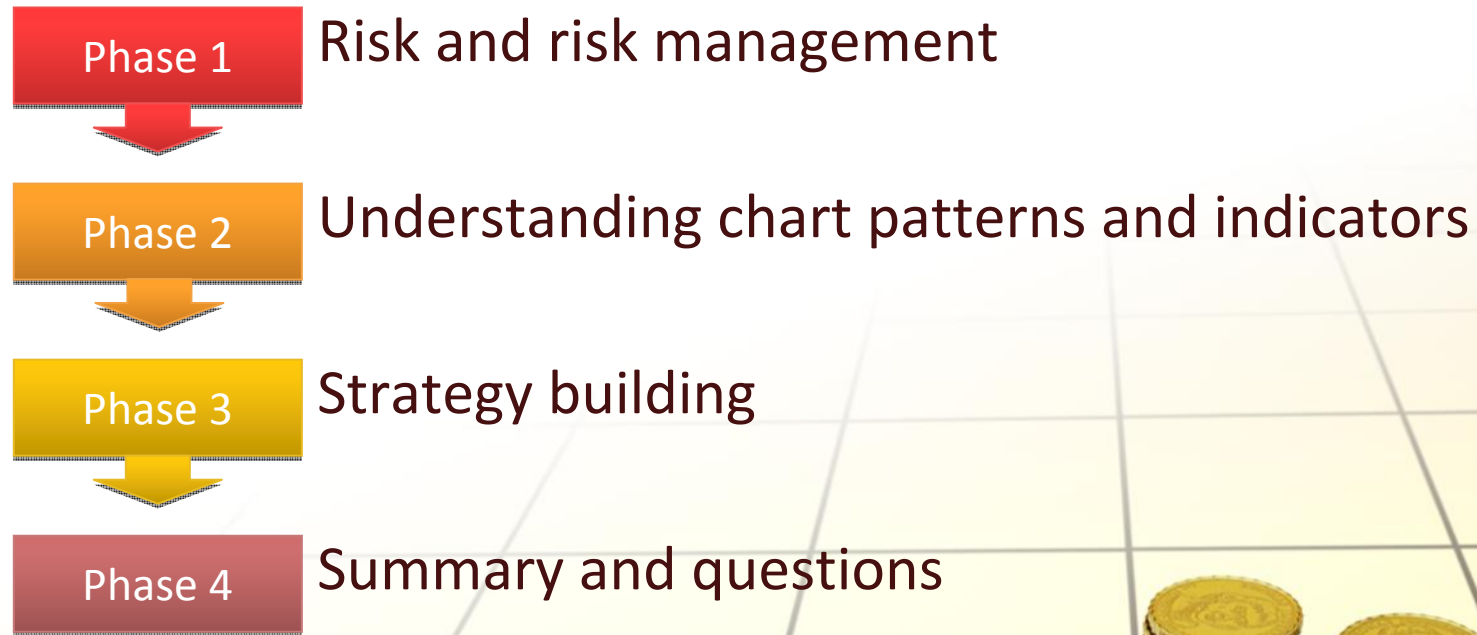


Introduction to trading strategy design, position sizing and optimization

Frank Svarholt - TradeNode AB

Advanced Technical Analysis



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Risk and Risk management

Find low risk trade opportunities

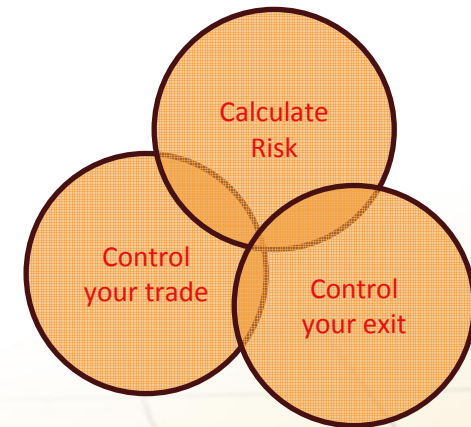
Assess which trade is worth the risk

Determine how much to risk on each trade

Control your exit strategy - cut losses/run profits

Choose between real-time or end-of-day trading tools

Master your trades



Control your risk



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Position sizeing

The key to make good profits

What is position sizeing

Increase position when you make money

Decrease position when you loose money



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Indicators and chart patterns

ENQ FM2.NPE) Montel TradeNode Front Quarter Nordpool LAST-Daily

daily 07/30/2010 C=45.100 -0.200 -0.44% O=45.300 H=45.500 L=44.900 V=0



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Strategy building

Most software have possibility to make a trading strategy

TradeStation

NeuroShell Trader

Ninja Trader

MultiCharts etc.

We will concentrate on using Tradestation 2000i with realtime Montel feed from TradeNode AB.



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Strategy building

How to create a strategy?

- 1.Design and build strategy
- 2.Back test and evaluate the result
- 3.Run "walk forward" testing
- 4.Trade your strategy



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Strategy building

Signals:

- 1)Buy "Next Bar at Open"
- 2)Buy "This Bar on Close"
- 3)Buy "Next Bar at Highest(High,3)" "Stop(intrabar Trading)"
- 4)ExitLong



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Simple intrabar strategy

Input: B(10), X(10);

Buy Next bar at highest(high,B) Stop;

ExitLong at Lowest (low,X) stop;



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Result from simple intrabar strategy

TradeStation Strategy Performance Report - Simple ENOQ FM1.NPE-60 min. (7/1/2008-7/30/2010)

Performance Summary: All Trades

Total Net Profit	\$342,442.25	Open position P/L	\$0.00
Gross Profit	\$959,982.50	Gross Loss	(\$617,540.25)
Total # of trades	109	Percent profitable	42.20%
Number winning trades	46	Number losing trades	63
Largest winning trade	\$80,356.25	Largest losing trade	(\$47,758.75)
Average winning trade	\$20,869.18	Average losing trade	(\$9,802.23)
Ratio avg win/avg loss	2.13	Avg trade (win & loss)	\$3,141.67
Max consec. Winners	6	Max consec. losers	6
Avg # bars in winners	27	Avg # bars in losers	10
Max intraday drawdown	(\$121,081.25)	Max # contracts held	5
Profit Factor	1.55	Return on account	282.82%
Account size required	\$121,081.25		

Performance Summary: Long Trades

Total Net Profit	\$342,442.25	Open position P/L	\$0.00
Gross Profit	\$959,982.50	Gross Loss	(\$617,540.25)
Total # of trades	109	Percent profitable	42.20%
Number winning trades	46	Number losing trades	63
Largest winning trade	\$80,356.25	Largest losing trade	(\$47,758.75)
Average winning trade	\$20,869.18	Average losing trade	(\$9,802.23)
Ratio avg win/avg loss	2.13	Avg trade (win & loss)	\$3,141.67
Max consec. Winners	6	Max consec. losers	6
Avg # bars in winners	27	Avg # bars in losers	10
Max intraday drawdown	(\$121,081.25)	Max # contracts held	5
Profit Factor	1.55	Return on account	282.82%
Account size required	\$121,081.25		

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Strategy building

Simple strategy step 2

Input: $B(3)$, $X(3)$;

Value1 = Elliott(5,35);

If Value1 > 0 then Buy Next Bar at Highest($C + 0.01$, B) Stop;

ExitLong at Lowest (Close - 0.01, x) stop;



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Strategy building

TradeStation Strategy Performance Report - Simple ENOQ FM1.NPE-60 min. (7/1/2008-7/30/2010)

Performance Summary: All Trades

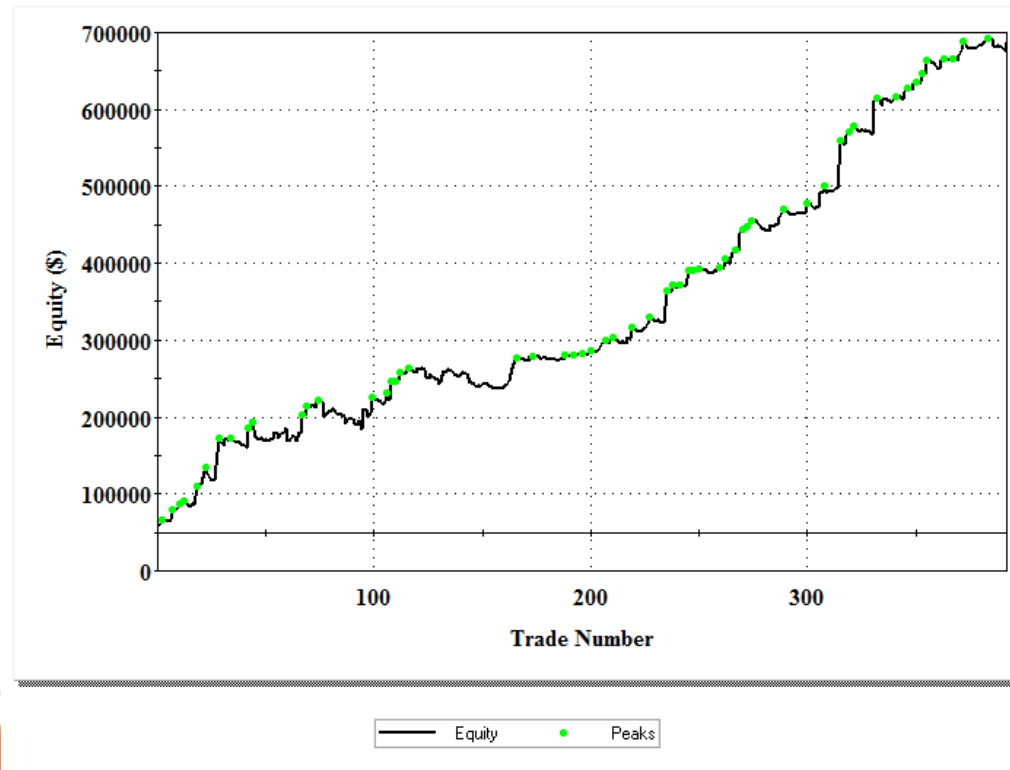
Total Net Profit	\$636,637.00	Open position P/L	(\$1,095.00)
Gross Profit	\$1,152,065.75	Gross Loss	(\$515,428.75)
Total # of trades	392	Percent profitable	43.11%
Number winning trades	169	Number losing trades	223
Largest winning trade	\$62,617.25	Largest losing trade	(\$18,303.25)
Average winning trade	\$6,816.96	Average losing trade	(\$2,311.34)
Ratio avg win/avg loss	2.95	Avg trade (win & loss)	\$1,624.07
Max consec. Winners	5	Max consec. losers	8
Avg # bars in winners	4	Avg # bars in losers	1
Max intraday drawdown	(\$38,222.00)	Max # contracts held	5
Profit Factor	2.24	Return on account	1665.63%
Account size required	\$38,222.00		

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Strategy building

Equity Curve
Simple



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Strategy building

Simple Strategy Step 3

Input: $B(5), X(3);$

Value1 = Elliott(5,35);

Value2 = Detrend(C,18);

If Value1 > 0 and Value2 > 0 then Buy Next bar at highest(C+B,3)
Stop;

Exitlong at lowest (C-0.01,x) stop;



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Strategy building

TradeStation Strategy Performance Report - Simple ENOQ FM1.NPE-60 min.

Performance Summary: All Trades

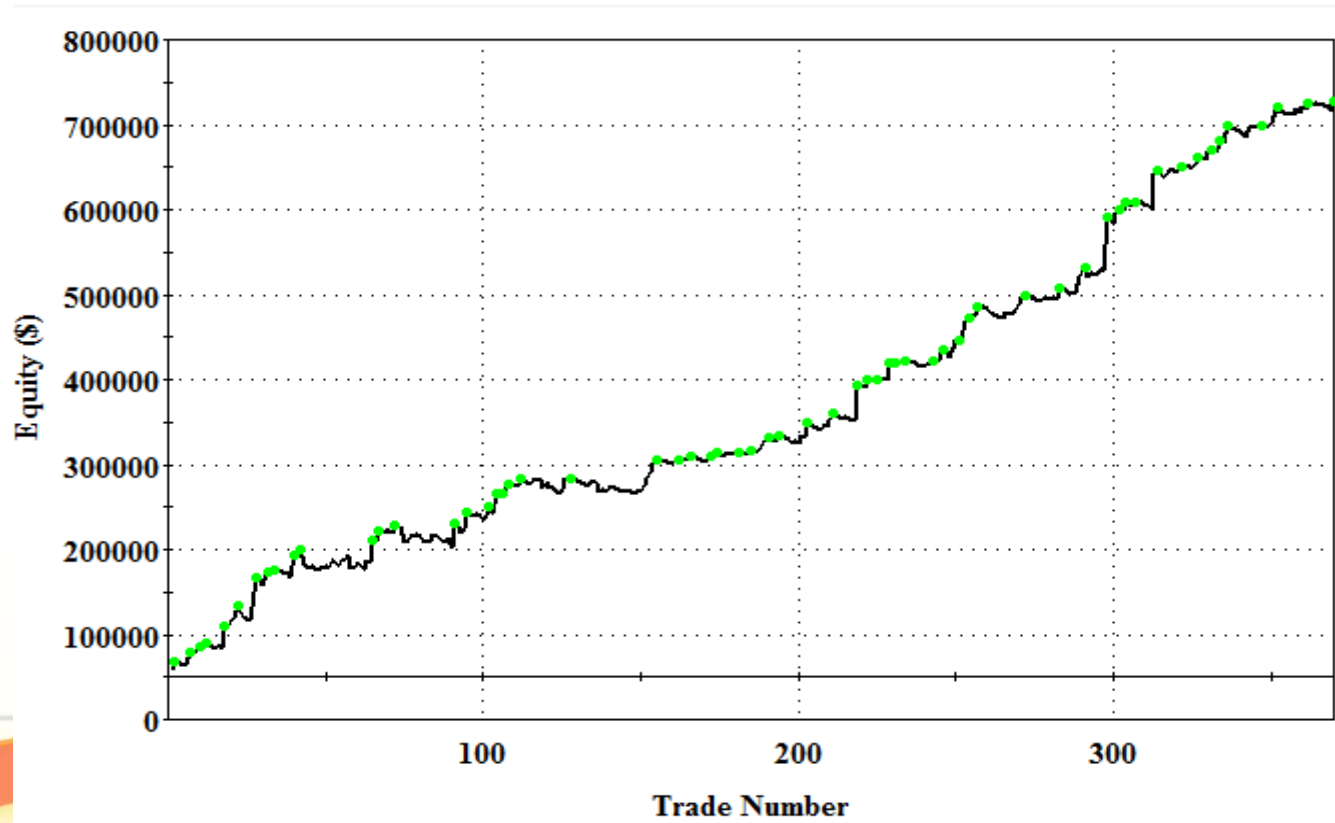
Total Net Profit	\$677,958.50	Open position P/L	(\$1,095.00)
Gross Profit	\$1,144,686.75	Gross Loss	(\$466,728.25)
Total # of trades	370	Percent profitable	44.59%
Number winning trades	165	Number losing trades	205
Largest winning trade	\$62,617.25	Largest losing trade	(\$18,303.25)
Average winning trade	\$6,937.50	Average losing trade	(\$2,276.72)
Ratio avg win/avg loss	3.05	Avg trade (win & loss)	\$1,832.32
Max consec. Winners	5	Max consec. losers	8
Avg # bars in winners	4	Avg # bars in losers	1
Max intraday drawdown	(\$26,362.50)		
Profit Factor	2.45	Max # contracts held	5
Account size required	\$26,362.50	Return on account	2571.68%



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Strategy building

Equity Curve
Simple



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Strategy building

WALK FORWARD TESTING

Optimize system on unseen data

Evaluate

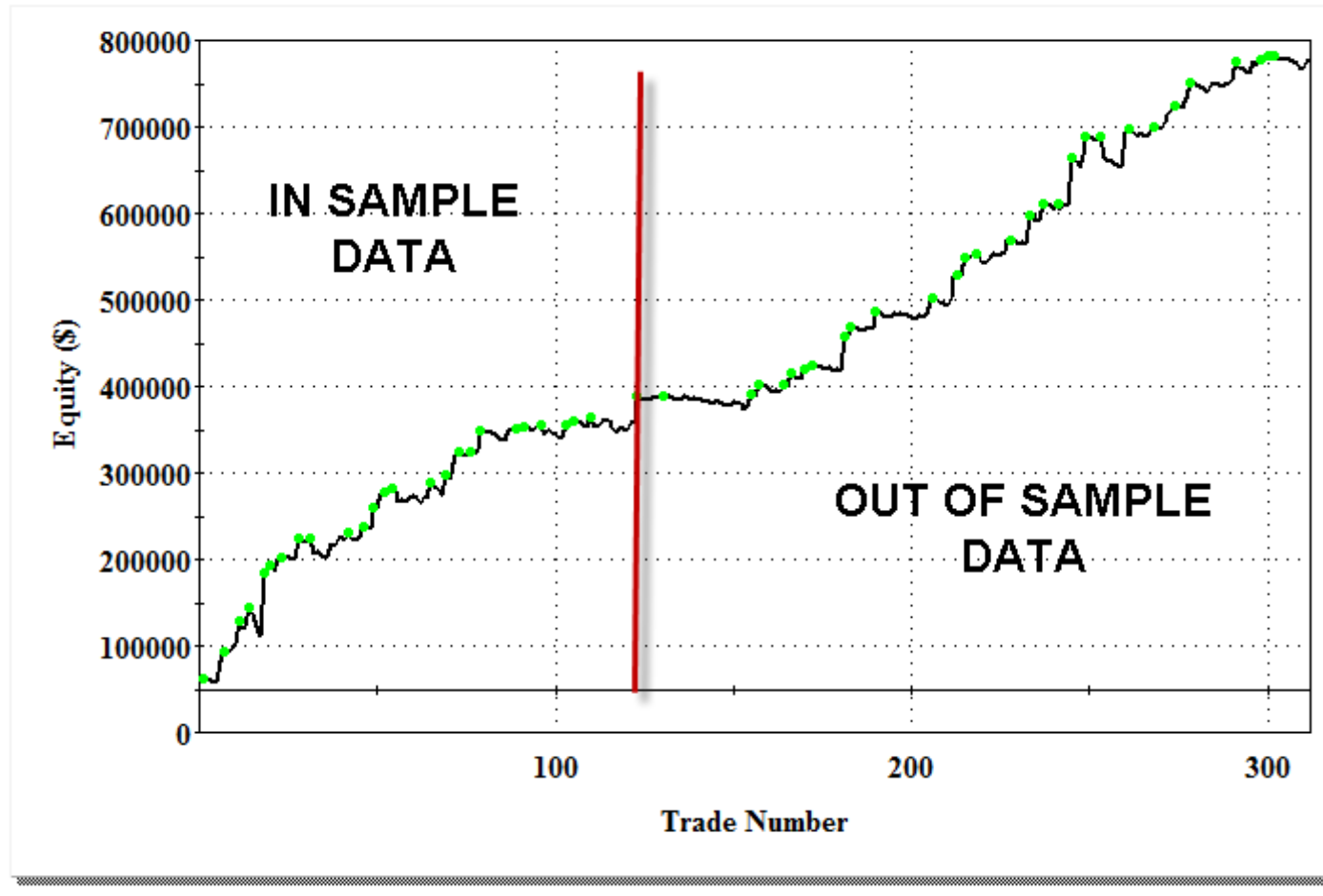
Trade strategy



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Strategy building

Equity Curve
Simple



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Strategy building

Walk forward testing is passed
Trade strategy



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Introduction to trading strategy design, position sizing and optimization

Summary and questions



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