

OmegaSigma Tradecraft

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Technical Specification & Scope Of Work Requirements

Purpose of this document:

This document explains the way in which we, hereafter referred to as *OmegaSigma Tradecraft*, will undertake custom programming work for clients, at their request.

Initial Consultation:

An initial consultation, where the client gives a general description of what he/she wants, will be made to determine if we are willing to undertake the project. This will involve the the client explaining the general structure of what they want, without necessarily providing exact details of the internal workings of their method, indicator or strategy. No charges will be levied for this preliminary discussion.

The client will be informed when we decide that we have enough information for us to request a detailed Technical Specification, written to our requirements, which are described in this document. At some point, we may provide a detailed specification sheet to be filled out, but at this time, we prefer that clients not be constrained, and that clients should provide the initial specification in their own words. This seems to be the most comfortable scenario for our clients at this time.

The client will be responsible for producing a first draft of the Technical Specification. We will discuss any parts that are not clear. We shall decide at our discretion if a Technical Specification is clear enough that our discussions merely serve to clarify a Technical Specification that otherwise meets all our requirements. In other words, we shall inform the client, if the Technical Specification requires so much interaction from us that we consider it necessary for us to treat completing the Technical Specification to be a consultation, rather than us just clarifying matters. At that point, it is up to the client to agree to our consulting arrangements and fees, as detailed in the “Charges” section in this document.

Mechanics:

The client will submit a Technical Specification of his/her requirements. We are willing to consult on the production of such a document, if a client so requires. Charges relating to such consulting work are detailed in the “Charges” section of this document.

If there are any further requirements, arising from the initial specification document, we shall discuss those when they arise. Once we finalize a specification, we will have a framework for further work.

When we have a written, mutually approved, Technical Specification, we shall determine and provide a Scope Of Work document, which will cover the actual work that we shall perform, and how it will be measured.

Change Requests:

Any changes requested after we have an approved Technical Specification, will be subject to charges, based on how many hours we estimate that it will take to make the changes, to either or both the code and/or the Technical Specification. The minimum charge for an approved change request will be US\$25.00, paid in advance. We reserve the right to refuse to make a change, for any reason, without explanation to the client, and such a refusal will not be acceptable grounds to refuse to settle outstanding charges. In other words, we may at our sole discretion insist on coding only to the approved specification as it exists at the time of the request, understanding that the approved Technical Specification is a document that included any prior approved change requests, if such there were.

Charges:

Our charges for preparation of a Technical Specification, should a client request that we consult on the generation of such a document, will be at the normal rate of US\$65.00 per hour or part thereof, or as we may amend from time to time. We shall not make a change in rates in the middle of the preparation of a Technical Specification: whatever rate we initially charge will cover the period over which we shall consult on the preparation of the Technical Specification. If the client prefers a fixed charge, to cover only the preparation of the Technical Specification, we can negotiate such.

Charges for preparation of a Technical Specification are separate from charges for the project itself, after the Technical Specification has been approved.

As the preparation of a Technical Specification involves an investment of time and intellect, charges for the preparation of a Technical Specification will not be refunded, even if the client decides not to go forward with the project.

Structure & Requirements of a Technical Specification:

Any code that we write MUST be against a written, Technical Specification to which our client has agreed.

At the minimum, the Technical Specification must:

1. Specify the desired outputs of the indicator, if any. Outputs are usually Plots, but may be any kind of structure: such as a boolean or string variable to indicate what trading action has been triggered.
2. Specify the desired inputs of the indicator, if any.
3. Describe the mechanics of generation of a signal. The easiest way is to just mechanically describe what the user would do if they were using the system in a discretionary fashion.
4. Describe how they want to be notified of the generation of such a signal, such as, for example, “If a signal to buy is generated, draw an up arrow at the bar where that signal is generated.” et.c.,
5. Describe fully any and all variables that they want tracked, and output.
6. If requesting a Strategy, describe all trades, each as a trade that ties together its constituent orders: Entry, Stop Loss (if any), Profit Target (if any), Trailing Stop (if any).
7. Stop Losses and Profit Targets do not have to be fixed; they can be calculated values. In which case, it must be stated when the values are to be determined, and if and how they are to be adjusted.

Vague statements will always need to be clarified. We shall ask for any clarifications that we need. If we determine that the client is unable to describe what is required, in sufficiently precise terms, capable of being translated into mathematically exact statements, then we shall not be able to write any code to satisfy such imprecise requirements, and may choose to terminate the project whether or not any code has been already written.

Deliverables:

Much of our code involves either proprietary techniques, or libraries which we do not intend for general distribution. As such we shall deliver code as executable, protected DLLs. We recognize, however, that the code belongs to the clients, who must be capable of disposing of the code however they choose, so the DLLs, while protected from reverse-engineering will not be restricted to be used on any particular system, or by any identifiable entity.

We will not provide source code, unless we specifically negotiate so to do with the client.

Indemnification:

We recognize that there will be occasions when clients will ask for code to be written, and it turns out that the code does something similar something that we have already coded, for sale by ourselves. In such a case, the client will be informed of such, and will agree to hold us harmless for any perceived similarity of his request, to the code that we already sell or may later sell. This statement refers to the overall output of the code, not to any methods that exist in the code, as we shall reuse may of our methods, which are often included in the libraries that we use.

Code Delivery:

Until conclusion of the contract, any code that is delivered will be subject to NinjaTrader Vendor License controls by us. When final payment is made, we shall deliver a dll that has absolutely no encumbrances.

Billing and Payment details are covered in their own section, later in this document.

Scope of Work:

The Scope of Work will specify what the deliverable code will provide. The scope of work shall be deemed to be satisfied if the delivered code satisfies all the requirements of the Technical Specification, regarding its inputs and outputs. **The inability of the code, when used live to trade, to make profits or otherwise is not our responsibility.** We only undertake to provide code that will do as described in the Technical Specification: **we do not under any circumstances guarantee that any indicator, strategy, or method that we write will produce profits.**

Billing and Payments:

Our normal charges are US\$65.00 per hour, or part thereof.

We shall provide a firm estimate of total charges after we have a Technical Specification and Scope Of Work.

PayPal shall be used for processing customer payments. That way, both the customer and us are protected. The customer is protected because we never see the details of their credit card: we are protected because as we never see the details of the credit card, any leak of such details cannot be due to anything that we may or may not have done.

50% of charges shall be paid by the client when we have a completed Technical Specification and Scope Of Work, that has been approved to start coding the project.

Another 25%, (that is, 50% of the balance) shall be paid when we provide a first working draft of the code to the client.

The final payment, 25% of the total charge shall be due when we document that we have satisfied all the conditions of the written Scope of Work as specified in the Technical Specification.

Communications:

Most communication will be by email, using a single address that will be supplied by the client, and any address that will be used by us.

Any communication that is received from the email address that the client specifies will be deemed to have come from the client and binding on the client. It is the clients responsibility to ensure that email that emanates from his address to us, is actually from him. Acceptance of our Scope Of Work also means acceptance of this provision. **If the client declines to accept this provision, we**

shall terminate all contact, and any charges already paid will not be refunded.

Final Notes:

Before we can write any code, our initial goal must be to provide a Technical Specification that drives the Scope of Work document, and a contract for work. Until we have those in place, we cannot go forward. We have ceased to code informally. We will only code to a Technical Specification that defines the inputs and outputs of what is to be coded, and how to determine whether those objectives have been met. The Technical Specification and Scope Of Work documents, together, needless to say, provide an objective measure against which to test and measure the code. It also, by allowing changes, lets us know any scope changes, and drives any charges that may be made pursuant to such changes.

Please understand that until we have a Technical Specification, we cannot start writing any code. Once you submit the first draft of the Technical Specification, we shall discuss how to bill further work.

We understand that every client is different, so there may be details that are not covered by this document. Any such matters can and will be negotiated. Any agreements reached will be part of the record for the Scope Of Work and/or Contract for Work.

U.S. Government Required Disclaimer - Commodity Futures Trading Commission
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CFTC RULE 4.41 - HYPOTHETICAL OR SIMULATED PERFORMANCE RESULTS HAVE CERTAIN LIMITATIONS. UNLIKE AN ACTUAL PERFORMANCE RECORD, SIMULATED RESULTS DO NOT REPRESENT ACTUAL TRADING. ALSO, SINCE THE TRADES HAVE NOT BEEN EXECUTED, THE RESULTS MAY HAVE UNDER-OR-OVER COMPENSATED FOR THE IMPACT, IF ANY, OF CERTAIN MARKET FACTORS, SUCH AS LACK OF LIQUIDITY. SIMULATED TRADING PROGRAMS IN GENERAL ARE ALSO SUBJECT TO THE FACT THAT THEY ARE DESIGNED WITH THE BENEFIT OF HINDSIGHT. NO REPRESENTATION IS BEING MADE THAT ANY ACCOUNT WILL OR IS LIKELY TO ACHIEVE PROFIT OR LOSSES SIMILAR TO THOSE SHOWN.

Revised by: Osikani
June 3, 2013

Revised by: Osikani
May 16, 2013

Originally written by: Osikani
October 20, 2012
Durham, North Carolina, USA.