**Program Source Files**

Coding standards for the project will be as defined in the Design Guidelines for Developing Class Libraries from MSDN. This document outlines a set of design guidelines for developing code with a consistent code style. Any coding standards that are to be added or edited will be listed below.

<http://msdn.microsoft.com/en-us/library/ms229042.aspx>

In addition to following the above coding standards every source file will have:

* A header comment including:
  + Filename
  + Author(s)
  + Version
  + List of functions/classes in the file
* A header for each class including:
  + Class name
  + Author(s)
  + Version
  + List of methods and fields
  + A brief explanation of the purpose of the class
* A header comment for each function/method including:
  + Function name
  + Author(s)
  + Version
  + Explanation of the purpose of the function, including
    - Parameters if necessary
    - Return type if necessary
* A comment for each global variable including:
  + Brief explanation of its purpose

**Versioning**

Versioning standard for the project will be using the GNU versioning standard of ***major.minor.revision*** version numbers. The major version of the project will not exceed 0 until the software has reached a stable production build. Once the major version has changed, the minor version will return to 0. The revision version number will be the subversion repository HEAD revision. An example of this would be a program version number of ***0.7.35***(beta) or ***1.6.283***(stable).

Versioning of the source files will be the subversion revision of that file. Ex. ***283***

Versioning for functions is up to the individual developer’s discretion and is optional for menial functions.

**Version Control**

Subversion will be used for project version control. All commits must be accompanied by a descriptive comment that explains the changes made, including what which functions were changed and the outcome of such changes. Any conflicts that occur must be discussed with all other authors of the direct code in conflict (an email is acceptable) before it can be resolved. An exception to this would be for duplicate code insertions or deletions.