**CODING STANDARDS**

**(SEE MISRA C 2004)**

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When starting a new file, your own standards may be applied HOWEVER:

* ALL variables must start with lowerCamelCase
* ALL functions must start with UpperCamelCase
  + Unless otherwise noted, as mentioned below
* Variables MUST have meaningful names. If the variable is used often, keep it brief
  + If the variable is private make it static
  + DO NOT BE AFRAID OF USING CONST!
  + Try your hardest to make sure global variables are hidden and can’t be interacted with
* Functions must always have meaningful names. (Be concise but descriptive)
* Keep functions very simple
  + Limit their size to around 20 lines
  + They must perform at most one thing
  + If a function performs two tasks. Move those tasks into two separate functions and call them from the first
* Attempt to limit line length to around 80 characters
  + If it looks awful to wrap under this, don't
  + DO NOT EXCEED 120 CHARACTERS
* If you get a code review back
  + Any stylistic or formatting problems, separate commit to any algorithmic issues
  + The latter part should be handled by our unit tests though, hopefully.
* When commenting, only ever use /\*…\*/ comment style
* Always use {} with if statements
* ~~Colons following module name~~
* For namespace/modules
  + Prepend “\_\_” (Double underscore) to private functions, and make them static
    - This also applies to functions you don’t want “people” to use; i.e. use it to hide certain functions that aren’t to be “public” facing
  + Start The function name with what module it’s working on