**Smart Solar Siting Coding Style Guide**

We will be following the coding style guide given by Androids Open Source for Contributors, given at the following link: <https://source.android.com/setup/code-style>

Some of the highlights:

**Variables**

* Define global variables at either to top of the file or right before the method that uses them
* Limit the scope of a variable where possible, if a variable can be local instead of global then define it locally to decrease the chance of errors
* Use camel case to define variable names
* If there is a constant variable, you can define it in all caps with underscores
* Give variables descriptive names to know their purpose

**Indentation**

* Use 4 spaces for indentation, not tabs
* If a line of code will be too long, then make the line use multiple lines
* Use standard brace style, braces go on the same line as the code before it
* Braces are required for conditionals, if the conditional will fit on one line, then braces are not required

**Comments**

* Each class should have a copyright statement at the top before the package and import statements
* For every non-trivial method, there should be a comment describing what the function does, or its overall purpose

**Methods**

* When feasible, try to keep methods short (under 50 lines)
* If a method is too long, try to refactor it into smaller functions where possible
* When naming a method, try to make it have a descriptive name that gives reader a sense of what the method does
* Method names in the camelcase format

**Exception Handling**

* Don’t ignore exceptions
* Don’t catch generic exceptions, only specific ones

**Imports**

* Fully qualify imports
* Make it obvious as to what parts of a class you are importing to improve readability