18-642 Project 3 Checklist

Name	: Date:
\Box	1) All the code is in a single .cpp file (this is for academic project management)
$\mathbf{\Delta}$	2) All indentation, variable naming, and organizational style is consistent
\square	3) Code is commented, including author comment at beginning of file At a minimum, comment each function: purpose, inputs, outputs, saved internal state
$\mathbf{\underline{\checkmark}}$	4) Spaces used instead of tabs for indentation
\square	5) Every variable has a meaningful name that requires no or minimal explanation
\square	6) Variables and procedures have minimum scope Defining at smaller scope (such as within a "{}" block) is optional
\square	7) Most variables are automatic; local static only used when required
\square	8) All variables use strongest and simplest appropriate type, with no floats Add extra typedefs at your discretion
\square	9) All base types are from types.h Variable size is at your discretion within reason
$\mathbf{\Delta}$	10) Typedefs are used to define structs and enums
$\mathbf{\Delta}$	11) Geometric pairs (e.g. (X,Y)) are coupled using typedefs
$\mathbf{\Delta}$	12) #define is not used
\Box	13) "Magic numbers" are not used Const used for single numeric values and enum for sets of related values
\square	14) Switch statements are used to decide among enum values rather than if/else if
$\mathbf{\Delta}$	15) Every switch statement has a default clause that activates ROS_ERROR
\square	16) All conditionally executed sets of statements are enclosed by "{}"
\square	17) No copy-pasted code is present Blocks of code that have the same functionality are factored out into modules
\square	18) Code has SF of 10 or less Most complex routine: #globals: SCC*: SLOC/20*: ⇒ SF*:
\mathbf{V}	19) No bit-wise operations are used for math (e.g., use "%" instead of "&")
	20) Math is not performed on enum values

OTHER NOTES: