18-642 Project 3 Checklist

Name: Date:

❏ **1) All the code is in a single .cpp file (this is for academic project management)**

❏ **2) All indentation, variable naming, and organizational style is consistent**

❏ **3) Code is commented, including author comment at beginning of file**
At a minimum, comment each function: purpose, inputs, outputs, saved internal state

❏ **4) Spaces used instead of tabs for indentation**

❏ **5) Every variable has a meaningful name that requires no or minimal explanation**

❏ **6) Variables and procedures have minimum scope**
Defining at smaller scope (such as within a "{}" block) is optional

❏ **7) Most variables are automatic; local static only used when required**

❏ **8) All variables use strongest and simplest appropriate type, with no floats**
Add extra typedefs at your discretion

❏ **9) All base types are from types.h**
Variable size is at your discretion within reason

❏ **10) Typedefs are used to define structs and enums**

❏ **11) Geometric pairs (e.g. (X,Y)) are coupled using typedefs**

❏ **12) #define is not used**

❏ **13) "Magic numbers" are not used**
Const used for single numeric values and enum for sets of related values

❏ **14) Switch statements are used to decide among enum values rather than if/else if**

❏ **15) Every switch statement has a default clause that activates ROS_ERROR**

❏ **16) All conditionally executed sets of statements are enclosed by "{}"**

❏ **17) No copy-pasted code is present**
Blocks of code that have the same functionality are factored out into modules

❏ **18) Code has SF of 10 or less**
Most complex routine: #globals: ___   SCC*: ___   SLOC/20*: ___ ⇒ SF*: ___

❏ **19) No bit-wise operations are used for math (e.g., use "%" instead of "&")**

❏ **20) Math is not performed on enum values**

OTHER NOTES: