Final Project Rubric			
Requirement	**No evidence** ←----------		**Mastery**
Programming Conventions are followed	• Variable names aren't descriptive • Function names aren't descriptive • Code blocks inconsistently indented • Capital letters used • Code is not organized into sections		• Variable names are descriptive • Function names are descriptive • Code blocks consistently indented • Use of small letters (not capital) • Code is organized into sections
Documentation and Readability	• No comments are used. • Code is difficult to read because no blank lines were used, or too many blank lines were included.		• Frequent and descriptive comments are used regularly. • Blank lines are used to help with readability.
Use of Variables and constants	• "Magic Numbers" or literal values are used in the code. • Data isn't tracked or updated (no counters, states, conversions, etc.).		• Constants are used to eliminate "magic numbers." • Variables are used for storing, keeping track of and updating data. • Global and local variables are used.
Use of Functions	• No plan or algorithm to follow. • Everything in one main program. • Long sections of code. • Functions use all global or all local variables. • Functions don't take parameters.		• Code is divided into smaller sections that accomplish a task. • Parameters are used as needed. • Local and global variables are used as needed. • Functions return a value as needed.
Use of Inputs Buttons and sensors	• No peripherals are used for input. (button, switch, potentiometer) • No sensors are read or used. (motion, temperature, sound, etc.)		• At least one peripheral is used for input. • At least one sensor is used to give input. • Conversion of raw data is performed as needed.
Algorithms and Programming	• No algorithms identified or used. • Program performs the same for every execution, without input. • Lists and tuples are not utilized when they would simplify the code.		• Algorithms are used to manipulate data and get results. • Data is used to inform decisions. • Lists and tuples are used to simplify data collection and implementation.
Control Structures	• Program does not have any if or if/else or if/elif/else statements. • Program does not use any while loops. • Nested loops or if statements are not used, or are used incorrectly.		• While loops and if statements are used to control the flow of execution. • Conditional and logical operators are used appropriately. • Nested while and if statements are used when needed.
Use of Outputs LEDs, speaker, motors	• No peripherals are used for output. (single LED, LED ring, servo, etc.)		• At least one peripheral is used for output.
Collaboration	• Students work independently or uncooperatively on a team.		• Students work collaboratively with shared tasks in their team to complete the project.
Synthesis / Purpose	• No clear purpose for the program. • Program does not incorporate learning across the mission pack.		• Purpose of the program is clearly stated. • Program combines learning, concepts and code from several missions.
Code Completion	• Code will not run or doesn't complete the task correctly.		• Code runs and accomplishes its task without any errors, including logic.
Evaluating Computational Artifacts	• No discussion on the global impact of digital technologies.		• Discuss the global impact of digital technologies (issues of bias, equity, resources, accessibility, etc.)