<table>
<tr><td>Name:</td><td>CodeAIR Unit 3 Remix Project Planning Guide</td></tr>
<tr><td colspan="2">Remix Step 1: Review your code from Mission 7, Mission 8. Mission 9 and Mission 10</td></tr>
<tr><td>Mission 7: Multitasking
During the mission you completed one program: Taskmaster. Describe what the program does, and the programming concepts learned and used:</td><td></td></tr>
<tr><td>Mission 8: Drone Director
During the mission, you completed two programs: TaskSeq, FormalStates. Describe each one, and the programming concepts learned and used:</td><td></td></tr>
<tr><td>Mission 9: Attitude Control
During the mission, you completed two programs: AttitudeChart, DipDetector. Describe each one, and the programming concepts learned and used:</td><td></td></tr>
<tr><td>Mission 10: Survey
During the mission, you completed one program: Survey. Describe what the program does, and the programming concepts learned and used:</td><td></td></tr>
<tr><td colspan="2">Remix Step 2: Remix Project Concept</td></tr>
<tr><td>Discuss remix ideas with your partner. Then decide what you want to do. Describe your remix project:</td><td></td></tr>
<tr><td colspan="2">Remix Step 3: Plan your code. Answer the questions below to help you plan and design the remix project before you start to write code.</td></tr>
<tr><td>What variables and constants will you need? How will you use them?

Add more if needed</td><td><table><tr><td>Variable or constant name</td><td>How it will be used / data stored</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table></td></tr>
<tr><td>How will you use the pixel LEDs?</td><td></td></tr>
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What sensors do you need to get information from? How will you use the information?

Sensor	How the data will be used

State handler functions:

State	Purpose

Task functions

Task function name	purpose

Use another sheet of paper and write an algorithm for your project.

Remix Step 4: Write your code

Start a new file. Use the sandbox  when you write the code. Write just a few lines at a time and test often. You can use your completed programs as a reference and to help you with the code.

Remix Step 5: Commenting and feedback

Documentation	• Make sure your code is readable by adding blank lines • Add comments to explain sections of code

Peer feedback: Get feedback from two (or more) people. You can be one of the peer reviewers.

Peer Review #1 Name:	

Go through the checklist. Are all requirements met? If not, list any missing criteria.	
What do you like about the program – be specific!	
Give at least one suggestion. Begin with “what if” or “maybe you could”	
Peer Review #2 Name:	
Go through the checklist. Are all requirements met? If not, list any missing criteria	
What do you like about the program – be specific!	
Give at least one suggestion. Begin with “what if” or “maybe you could”	
Review the comments. Then take time to improve or add to your project.	
Post-Mission Reflection	
What were some difficulties you had while writing this remix program?	
How did you overcome those difficulties?	

Unit 3 Remix Project Rubric Checklist:

- ☐ New file is used and filename is descriptive
- ☐ Use at least one variable
- ☐ Use at least one constant
- ☐ Use at least one tuple or list
- ☐ Use the pixel LED
- ☐ Uses data from at least two sensors
- ☐ Use at least three states
- ☐ Use at least two tasks
- ☐ Uses the flight data recorder
- ☐ Has a purpose and is different from required programs
- ☐ Includes comments and whitespace for readability
- ☐ Code runs with no errors