



CodeAIR Mission 2 Assignment	Name: 
Pre-Mission Preparation	
What are your goals for this course? What do you hope to be able to do by the end of the missions?	Answers will vary.
What are some reasons you should learn Python coding with a drone?	<p>Answers will vary. Possible answers:</p> <ul style="list-style-type: none"> ● They are fun or awesome ● Drones will fly themselves autonomously, but someone has to program them ● The ability to program a drone opens up a whole new world of coding and AI ● Drones are used in many places
Mission 2 Checks	
<p>Objective #1</p> <p>What  tool did you click on?</p> <p>What did you learn about the tool?</p>	<p>Answers will vary. The four tools are:</p> <ul style="list-style-type: none"> ● LEDs ● Speaker ● Buttons ● Motors <p>Answers will vary, depending on the tool selected.</p>
<p>Objective #2</p> <p>Zoom in before clicking on the bolts so you can easily locate the CPU, USB port and power switch.</p> <p>What are some suggestions for keeping the CodeAIR safe?</p>	<p>Answers could be different for each student. Answers should include some of the following points:</p> <ul style="list-style-type: none"> ● Hold the CodeAIR by its prop guard ● Be gentle with the connectors, LEDs and components ● Keep CodeAIR in its box when not in use ● Ground yourself before handling CodeAIR
<p>Objective #3</p> <p>What are some capabilities of the CPU?</p> <p>What are some of CodeAIR's onboard peripherals?</p>	<p>Answers will vary. The could include:</p> <ul style="list-style-type: none"> ● The Python code loads and runs on the CPU ● It is the brain of the CodeAIR ● It is a microcontroller that executes code ● It has a FLASH filesystem that stores code and files ● It has RAM and a built-in wifi radio <p>Peripherals include: sensors, buttons, LEDs</p>
<p>Objective #4</p> <p>What are some facts about CodeAIR's battery?</p>	<ul style="list-style-type: none"> ● The battery can change when USB connected ● It is a lithium polymer single cell pack ● It is inserted inside the landing sled ● The white battery connectors only fit one way

Objective #5 What did you learn about connecting CodeAIR to the computer with a USB cable?	Answers should include some of the following: <ul style="list-style-type: none"> You can close a pop-up window when the CodeAIR is plugged in The USB cable lets your computer communicate with the CodeAIR The USB cable provides power for everything but the motors It charges the battery while plugged in
Objective #6 What are some troubleshooting connections suggestions?	Answers should include some of the following: <ul style="list-style-type: none"> Make sure the power switch is ON Make sure the USB cable is fully plugged in Try connecting with the battery unplugged Disconnect, reload the browser, reconnect
Objective #7 Where are code files saved?	To your personal file-system in the CodeSpace cloud
Objective #8 What is the purpose of CodeTrek? What is the purpose of a comment? What is the purpose of <code>#TODO</code>	Starts you out with code, gives information about the code to write, explains topics, and gives you #TODOs Notes that explain the code It tells you there is work to do, unfinished business – a place to write code
Objective #9 What are two rules to remember when typing Python code?	<ul style="list-style-type: none"> Capitalization matters – code is case sensitive Punctuation is important (like indenting)
Objective #10 Click on the tool for BYTE LEDs. What are some things you learned about LEDs? In the code: <code>leds.set(0, 50)</code> The 0 is _____ and the 50 is _____	Answers will vary. Anything from the toolbox will meet the requirement. 0 is the number of the LED (0-7) 50 is the brightness level (0-100)
Post-Mission Reflection	
What are three things you remember the most about this mission:	Answers will vary. <ol style="list-style-type: none">