Points regarding drone parts:

**Microcontrollers vs. Linux-based controllers**

Microcontroller pros:

* Specifically designed for real-time operations
* More dedicated computational power
* More guarantee for RT task deadlines to be met
* Faster comparatively to Linux controllers

Microcontroller cons:

* Large barrier of entry
* Updating firmware can be a serious hassle – in an industry context, this could mean having to manually update hundreds of units…money cost!
* Difficult to interact with – no SSH available

Linux-based pros:

* Intuitive, runs all on Linux
* Unites the Linux board and the flight controller into a single entity
* Can be SSH’d into – easy to interact with
* Easy to update firmware, can be all done wirelessly AND while the drone is in operation

Linux-based cons:

* Not as dependable as microcontrollers – some industries may not see the use in using a Linux-based controller