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| Commenting |  | Notes |
| Each file has a header comment, that states purpose of file and authors |  | Main.c needs a proper comment. |
| Over- or under-commenting |  | Could definitely use some more comments, particularly around the yaw handling code. Comments like “Change the display mode flag” are also excessive since that is clearly what the code is doing. More useful would be a comment explaining the *purpose* of the code, not its action. |
| Copied code and comments updated for current application |  | Nope, this should really be fixed. |
| #ifdef DEBUG blocks |  | Not needed so this is fine |
| Magic numbers |  | States are magic numbers (use an enum). Yaw calculation is magic! |
| Variable & function naming |  | Mix of camelCase, snake\_case, Capitals, and Hungarian notation (ui32 = unsigned 32 bit integer)  calcDegrees() also does more than just calculate the yaw in degrees |
| Formatting |  | Indentation is good, but random and unneeded whitespace all over the place. |
| High Cohesion & Low Coupling between Modules |  | This code would benefit from being split into a few files:  Main.c – initializes the systems, and handles high level logic  Altitude.c – Handles the ADC system, averaging, and altitude calculations.  Display.c – Handles the display state and final output |
| Appropriate use of functions &/or macros |  | Use of functions to keep code separate is good |
| ISR code is short |  | ISRs are short and fast. |
| ISRs set flags rather than call functions |  | Functions being called are short and appropriate. |