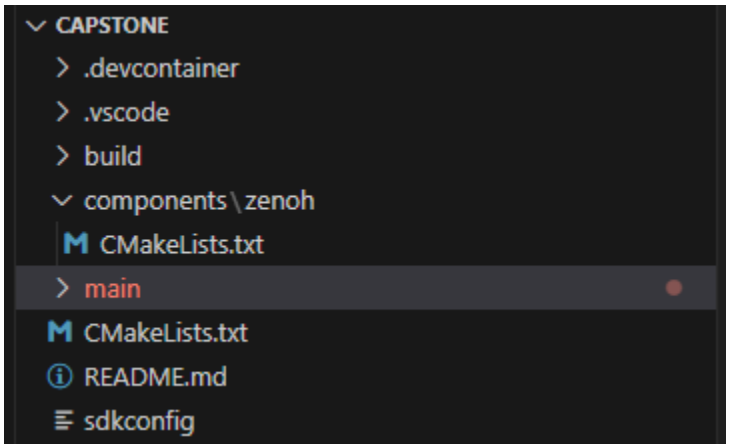
Setup Project with Git

1- First you need to get the ESP-IDF development environment working in VSCode. See the ‘vscode espidf zenoh setup’ pdf document for help with that.

2- Once that works, create a blank ESP-IDF project and add zenoh as component.

   a. The file structure should look like this in VSC



3- Install git. To check if you already have git installed on your system, go to command prompt (on Windows) and type the command ‘git –version’.

4- Clone our repository 'JAMscript-ESP32-port' into the **main** folder. Open the terminal and navigate to this main directory and run the command

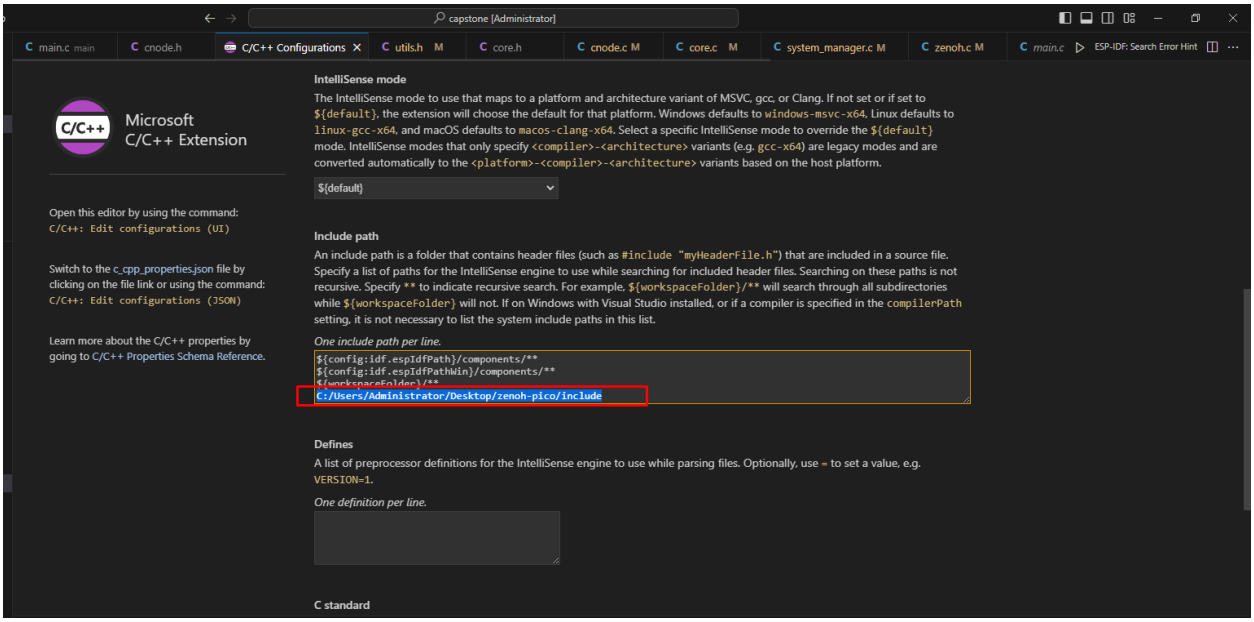
   git clone https://github.com/blissfulcat/JAMscript-ESP32-port.git

   You should see a new folder created inside of the main folder containing all our source code.

5- Modify the CMakeLists.txt file **in the main folder** as follows:

```
idf_component_register(
                    SRC_DIRS "."
                    SRC_DIRS "JAMscript-ESP32-port/cside-main/src"
                    INCLUDE_DIRS "."
                    INCLUDE_DIRS "JAMscript-ESP32-port/cside-main/inc")
```

6- Try to build the project. Everything should build correctly. If everything builds and you go to the source and header files and notice a lot of red squiggly lines related to include errors, then you might have to modify 'includePaths' in the C/C++ extension on VSC to add the include path to the zenoh-pico library as follows:



How to push your changes to GitHub using Git

You can now navigate using the terminal to the 'JAMscript-ESP32-port' folder and run git commands to commit and push changes to the GitHub repository.

a. Open the PowerShell terminal in VSC and make sure you are in the right directory. It should look like

b. Run the command ‘git status’ to see what files you have modified and which files you have committed.

c. Run the command ‘git add .’ command to add all of the files that you changed to the next commit. Running ‘git status’ again you should see the files that are ready to be committed. MAKE SURE THAT YOU DON’T ACCIDENTALLY COMMIT A BUNCH OF RANDOM UNWANTED FILES.

d. Run the command ‘git commit -m [MESSAGE]’ where MESSAGE is the commit message that will show up on GitHub once you push the changes. Preferably stick to https://www.conventionalcommits.org/en/v1.0.0/#summary as a general convention guide for commit messages.

e. When you are finally ready to push your changes, run the command ‘git push’. You might be prompted to login to GitHub using your browser for authentication reasons. If successful you should see a message looking like this: