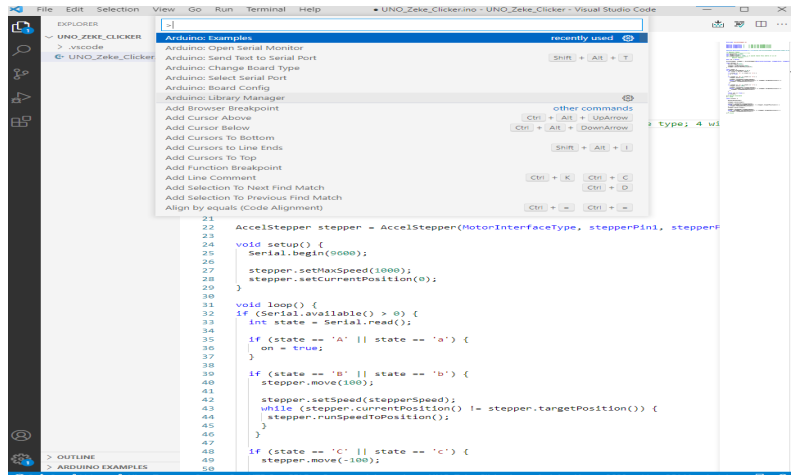# Installing Arduino in Visual Studio Code

For this to work make sure you have the Arduino IDE installed you will not need to open it but have it installed.

Goto https://marketplace.visualstudio.com/items?itemName=vsciot-vscode.vscode-arduino
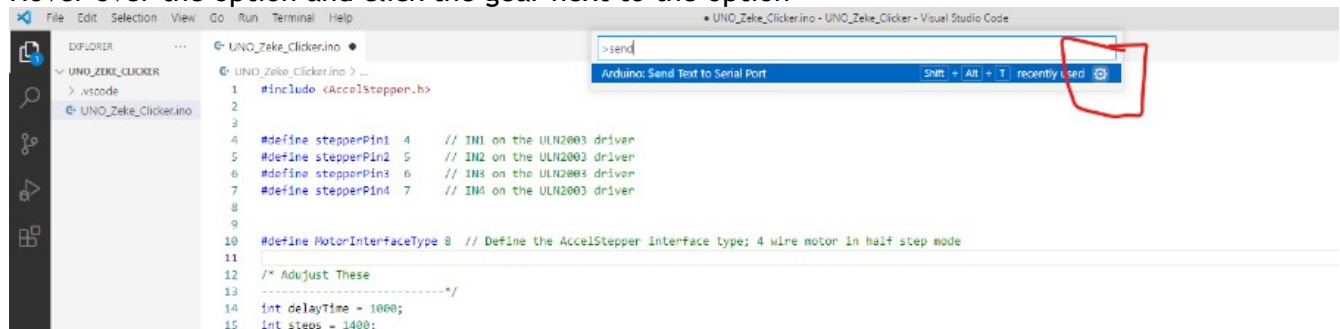
Click install. It should open visual studio code and then you can install it from there. The next thing I would do is set up a shortcut for sending serial commands.
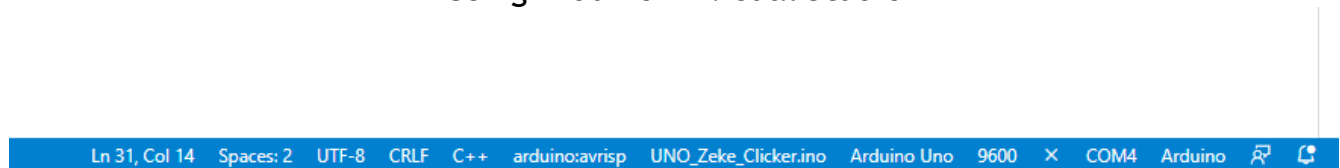
Hit F1

Search in the list for "Send text to serial port"
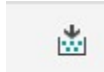Hover over the option and click the gear next to the option

Click in the keybinding column and it will let you set up a shortcut. Do not just use ctrl and a letter or shift and a letter because it will interfere with other apps most likely. I used CTRL + ALT + T

Using Arduino In Visual Studio

In the lower left you should see options like this after opening Arduino code. When uploading code to a board reguarly make sure the option arduino:avrisp is selected. As well as the correct board, baud rate, and Serial port.

To upload code in the top left click this button

To verify code click this button

Note if you hover over a piece of code it will tell you what that code does

EX:

```
    }

if (state == 'C'
    stepper.move(-1

    stepper.setSpee
    while (stepper.currentPosition() != stepper.targetPosition()) {
        stepper.runSpeedToPosition();
```

long AccelStepper::currentPosition()

The current motor position.

Returns:

the current motor position in steps. Positive is clockwise from the 0 position.