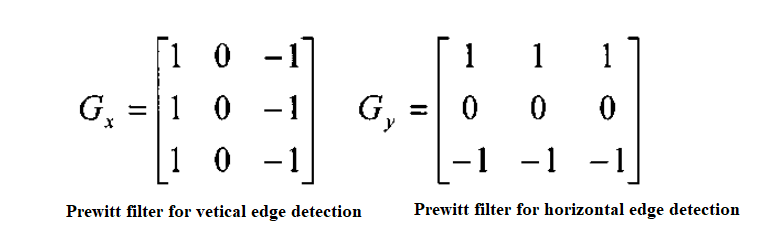
DATE HERE - info, figures, whatever afterwards, DATE EVERYTHING

DO NOT USE IMAGES DEPENDENT ON QUALITY FROM THIS DOCUMENT, WORD COMPRESSES HEAVILY

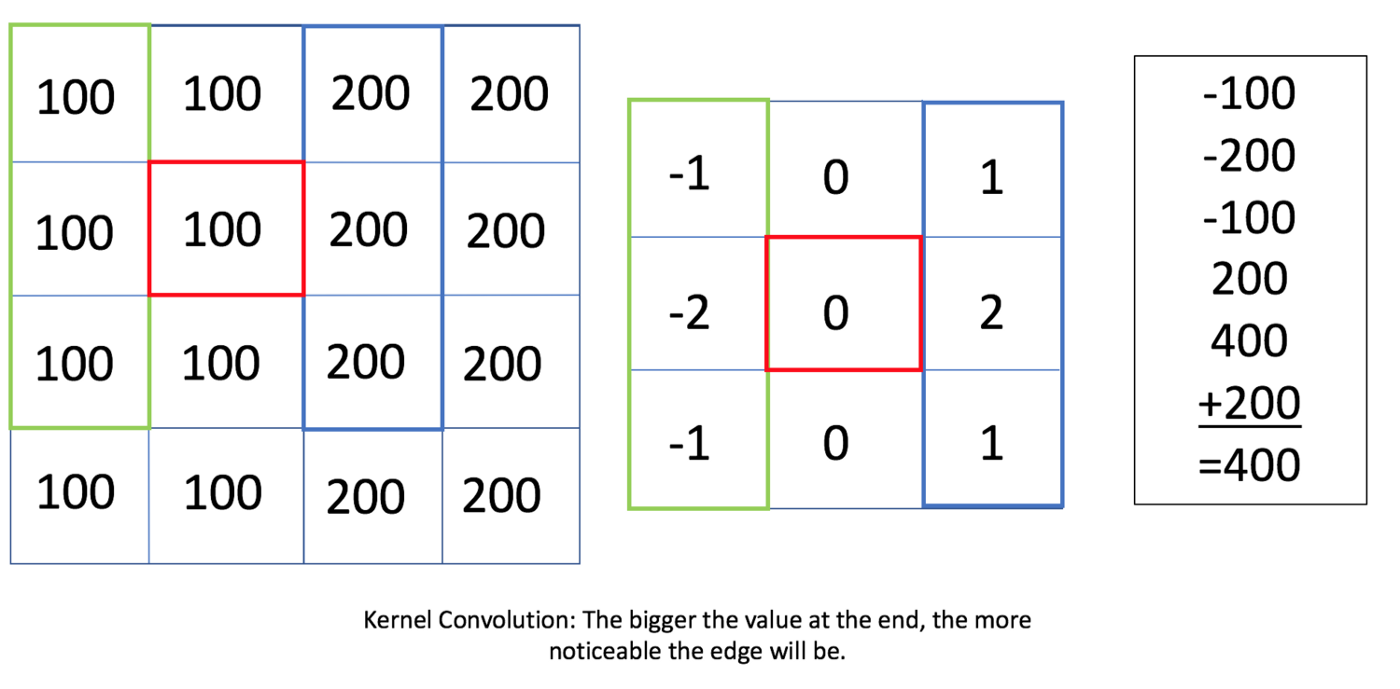
09/10/2022 – Image detection literature study

<https://www.mygreatlearning.com/blog/introduction-to-edge-detection/>

Edge detection described as: “a technique of image processing used to identify points in a digital image with discontinuities, simply to say, sharp changes in the image brightness”

There are several methods, all involving applying a filter matrix to the image at all possible points.

For all given pixels that the matrix will fit for, apply these coefficients for a given pixel, then sum the values and take this as the new value to be later normalized for the image:



This method results in the output being shrunk in dimensions, for an n\*n image and a r\*r filter the output image will be ( (n-r)+1)\*( (n-r)+1).

Canny edge detection is the most common. The process involves:

* Convert the image to grayscale
* Reduce noise – as the edge detection that using derivatives is sensitive to noise, we reduce it.
* Calculate the gradient – helps identify the edge intensity and direction.
* Non-maximum suppression – to thin the edges of the image.
* Double threshold –  to identify the strong, weak and irrelevant pixels in the images.
* Hysteresis edge tracking – helps convert the weak pixels into strong ones only if they have a strong pixel around them.

Attempt to implement a Sobel filter in MATLAB:

<https://www.geeksforgeeks.org/matlab-image-edge-detection-using-sobel-operator-from-scratch/>

**Advantages:**

1. Simple and time efficient computation *(for small images, cannot go above 720p at least for Arduino)*
2. Very easy at searching for smooth edges *(good for searching for edges of license plates)*

**Limitations:**

1. Diagonal direction points are not preserved always
2. Sensitive to noise
3. Not very accurate in edge detection
4. Detect with thick and rough edges does not give appropriate results

Overall quality detection if the threshold values are set correctly:



Main concern here is the potential overhead and memory requirements needed for this level of image processing, alongside all the extra processing surrounding finding the bounding box of the plate.

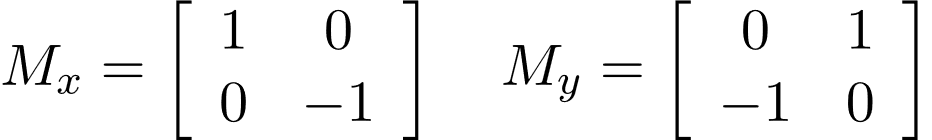
10/10/2022 – Attempts at bounding edged image

Attempted to use code found online to create bounding boxes for the edge filtered image

<https://uk.mathworks.com/matlabcentral/answers/35243-detecting-rectangle-shape-in-an-image>

Not great, will need some tinkering with algorithm to detect correct bounding box.

Need to think of extra info that could help detect corners of plate. The corners themselves seem fairly distinct, perhaps a similar filter to the edge detection could be used to find the corners of the plate. A filter for this use may have been found by using the **Robert Operator**.



This could be utilized to filter out diagonal edges, which the licence plate has at its corners, take the highest intensity spots and use these to find the approximate location for the edges of the licence plate.

12/10/2022 – Checking image processing requirements

Looking at an image size calculator, the stated value of a 1280x720p image in 8bit monochrome would be around 0.85MB which is significantly more than most microcontroller SRAM.

<https://toolstud.io/photo/filesize.php?imagewidth=1280&imageheight=720>

Given that working with the actual pixels of the image itself will be necessary, it doesn’t seem feasible to save the image in a compressed format (unless some Realtime decompression can be performed). The image could potentially be streamed from the onboard storage if necessary, taking the data and reducing it to a very low-level form (4bit mono-chrome) for processing. Although the maximum level of SRAM I have found on an affordable board is 256KB of SRAM. I could find an external module to assist in storing images, but I am uncertain, even 4 bits per pixel on 480p leaves very little room for processing. I should probably work on getting the system working at a higher level before attempting to design anything though.

12/10/2022 – diagonal edge detection



The Robert filter doesn’t work well. I might need to design my own filter to get the corners I want or find another method.

15/10/2022 – Background reading

Some of the methods that *‘Computer vision for security applications’* talks about is the motion detection aspect. In early systems there where a large amount of false positives due to the system being unable to differ between camera shake and actual motion, along with rain and sunlight changes. The methods used to combat this were using low pass filtering to counter rain and a high pass filter to remove sunlight gradient effects and to make the image appear flatter. These filters could be used to get a range of motion frequency for a range of vehicle speeds to clean up the wake-up detection image.

*‘An Automated Vehicle License Plate Recognition System’* uses a method of weighting the pixels of a RGB image differently to produce different styles of greyscale conversion. Looking at the MATLAB documentation for im2grey it also appears to use a weighted conversion to greyscale.

15/10/2022 – new idea for detecting bounds

The standard for the UK licence plate is such that, for any given plate, there will be 7 letters enclosed within a bounded box. An idea could be to find all areas that are bounded, such as with the code seen earlier in doc, and try to find a bounded area containing 7 bounded areas within it.

16/10/2022 – testing above idea

Tried to use far and angled image for testing a worse case scenario.

![A person holding a sign

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TDKRXhpZgAATU0AKgAAAAgABAExAAIAAAALAAAQSodpAAQAAAABAAAQVoglAAQAAAABAAAgouocAAcAABAMAAAAPgAAAAAc6gAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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5dV5J5K3pWej0ZMnyh5nz0ySTy6PMqN6itSvLmREVGW7IHn8uPfRHJ5klEkkfl+XVeOT95S9tLlvYmVoyuSSfu5KgkkqR6p+ZRTklLmloFlPrqEkmySmSSeXR/HUE/meZ/sU23Lc5oxlGVhPtFQT0/y6ZcT/wDLOuuMYy3Rvb3bRIJJP+/dV5JPkqxJVSSSulwUo3RhJ2jd6hUEnmUj0zfSXu7GfMl5BJJsqOT/AFYpk8nmUn8Naxh7vNJWZq7yjZBJJ+7qvSySUzzKObnh7zI05b2PKetG3NFFcsYqW57o2lWiiuaBQNQGxRRRKTjPQBaWiiu4kloooraEVLcgWloorqUVHYklX7tTq3zUUVtKCZjIn3eZT1izRRXJ9rl6HNLTYJl+SsqTqaKKUfh5upvR2HRtimt1oopS+I36jVoaiitPsFB0ooool7uwBRRRVypRjsItxfLWrat8tFFa4X3qPM9zhrbGt4Vf/irNJ/6+Er6OguqKKxrfYMvsmla30kda0F9JJHRRVzhHnKnFWNK1n8+rEcFFFcP/AC+5eh0UYqVHme4eX5dW4I/Lk8yiisIHJzPn5ehpQfvI6n/1dFFclSTO+MVKjzPcEfzKkjjjoorI82VWUY8yepbjqxRRWlSnE9Fe7sRUzy/MkooqKcUcvMyTyPLqOf8Adx0UUVoqNXlWx3Ufe3CD/V1PHRRUQ+Dm6mfM+fl6FuCPy6s0UVwczuTzMSOSjzP3dFFerTiva8vQr7ZJ5lPSiisanxjJackdFFZQ+Ll6Fy92ehYqePzKKK1NCeOeSrEE/mUUVf8AOZF+OSp/LjooqORdzSPvbkccH7yo3Ty6KK560nHYiPvbknnUR3UdFFaU4oRJHfU/7V5lFFH2uXodEPe3Dz6kjkoorCfu7DpknmU+Sfy6KKI+9uZzIJLqo5J5JJKKK7acFyGJbgj/AHdWI6KK5TYrz3VZt1qUkf8Aq6KK6OVHOVI5PtU/7ytKC1joorOfxcvQZJJH5dRxyUUVnTLn/F5ehYjjqeGiio5mOUnHYk8zy6jkupKKK2o+9uXMI7qjzKKKmBcPe3Dy/Mo8uiis60nHYjlQR1Yoorq5UaUy1H89WNlFFcFT4uXobcqD/V1Unu/LoorWj725yld555/9XRHpUk8kckkn/bOiiorScYaAacFqkf8Ayzq3HHsoopQ97c3pj6ZRRW4wjjokkooq5xQpe7sVJ56qbPOkoorMzJ0gqT7D/wAtKKKmPvbmo+iOOiijlQBJJUEkn7yiitpxUdjOmJS+X5lFFYz+AI+9PlexJHHT6KKUoqOxdSKGU+iis6hpCKsMk/eU+iioOXmYUUUVHMzcKKKKtSftuXoc8JOW4ySOs27ooro+1y9DSZiX1cT4q/eWM9FFbr3amhnD3tz4U+NkH2W+8z/npPXk1xLRRXv0ZOVXlexwzivaFO4bKV9MeFZvM8P6bJ/yzkgjoorzcyqSjsbQdrWOssZ/Ljr2PwHP5mlWD/8ATOiivHmegju45/Lo+0UUVgVL3diOSSvhD9tHXhrHxoaBE2R6Xp1vZoPf55H/APH5Goor3cmivrM/7uxnU+BHhaXBoaVm6miivv4SfLzdTj5UQs1CrRRXJH3p6lD6mibZRRXdQiuXm6kMHfdUVFFZ1AiKIy1Wkt/loorGhJyqamM5MS4+7VZeWFFFejyq5UdiaSodtFFXVgkOOwlCmiiuSr7uxp0JI/nqzt3UUV6eHipU9TCejJQ26q0lFFRvAmO5WkU01aKK4q1NUp+6dK2BZQalT5qKK5MPXnUh7wSVhrcc07duWiiumEnLnuIhZaZtoorgrRXOWhSvepP4aKKuh9oGOVitRtRRXRiJOMBRG7TS7hRRXHL92vdK3G5LUu2iissP+8jzS3BkqUUUV6MvdjzLcgncbY8VGoXvRRXW4rkM47FtYkqdfvJRRXRThE5pFlv++KiaTdRRXVH3o6mMV1Kk09V/MO7iiisZwXPy9DtjFWJmfbTGbfRRRUhESXUrMtTW6/NRRXBCKNJPQvMvy01aKK9KhL3DkWw2Zd9V5gYTiiiipBcvN1NIPVIg3bloSM5zRRXkOTlUhc6XotCyqVLtoor2KfxcvQ5pEM0xaq7ZNFFZVvely9DeOiIzzTDxRRXzlb4ebqbIXrSN8tFFc8JOVLme4yN2pgGaKK8mp709TRCtTGoorlrFIFqQUUUqM2Ji5zX0V+z2p/4RO42dftTfyFFFZYmTk9TKW6PVaKKK5eZ8hlzDZJP3lV5JKKK55/Hy9C4+9R5nuQSSVHJJ+8oorurRUYaGfTl6EEk/l0eZRRXLKKjS5luRh/eI5JJJKqf6uiirl7uw4yco8z3JPMjkqCSiivWhFS3NpxRXkj8ulkoorCXuz5VsckvdnoU56gk+/RRVyioy5ehhP4w86oPPoorSFKEt0bzK8k3z0T+Z/wB+6KKzlFRq8q2MFJ8hUkk/5Z1B5nmf6uiitOVex5uopyftuXoR0ySSiiuWnVlz8t9DrqRViv5lQTyeXRRV4mbjsePGrKW5U31J5lFFb1pONPQ2pyZXkk2Ux5I5I/koorTBxVWfvmkvd2P/2Q==)

A black and white photo of a city at night

Description automatically generated with low confidence

Still effective, checking and all letters appear to be creating bounded zones. Interesting effect is the fisheye lens that can be seen slightly on the image above. Given that I’m using relative pixel heights for this it could be an issue.

Checking the bounding data, some interesting effects on 1080p:

Text

Description automatically generated

Both plates have clearly detectable bounded lettering, which creates 7 bounded areas. Tests at 720p also conducted:

Graphical user interface

Description automatically generated with medium confidence

Not great, pixel density is too great in some areas for plate letters to be counted as bounding areas. Seems like reducing the resolution reduces the number of pixels a fixed object size has to be represented in the image. Will try 480p with plate at closer range.



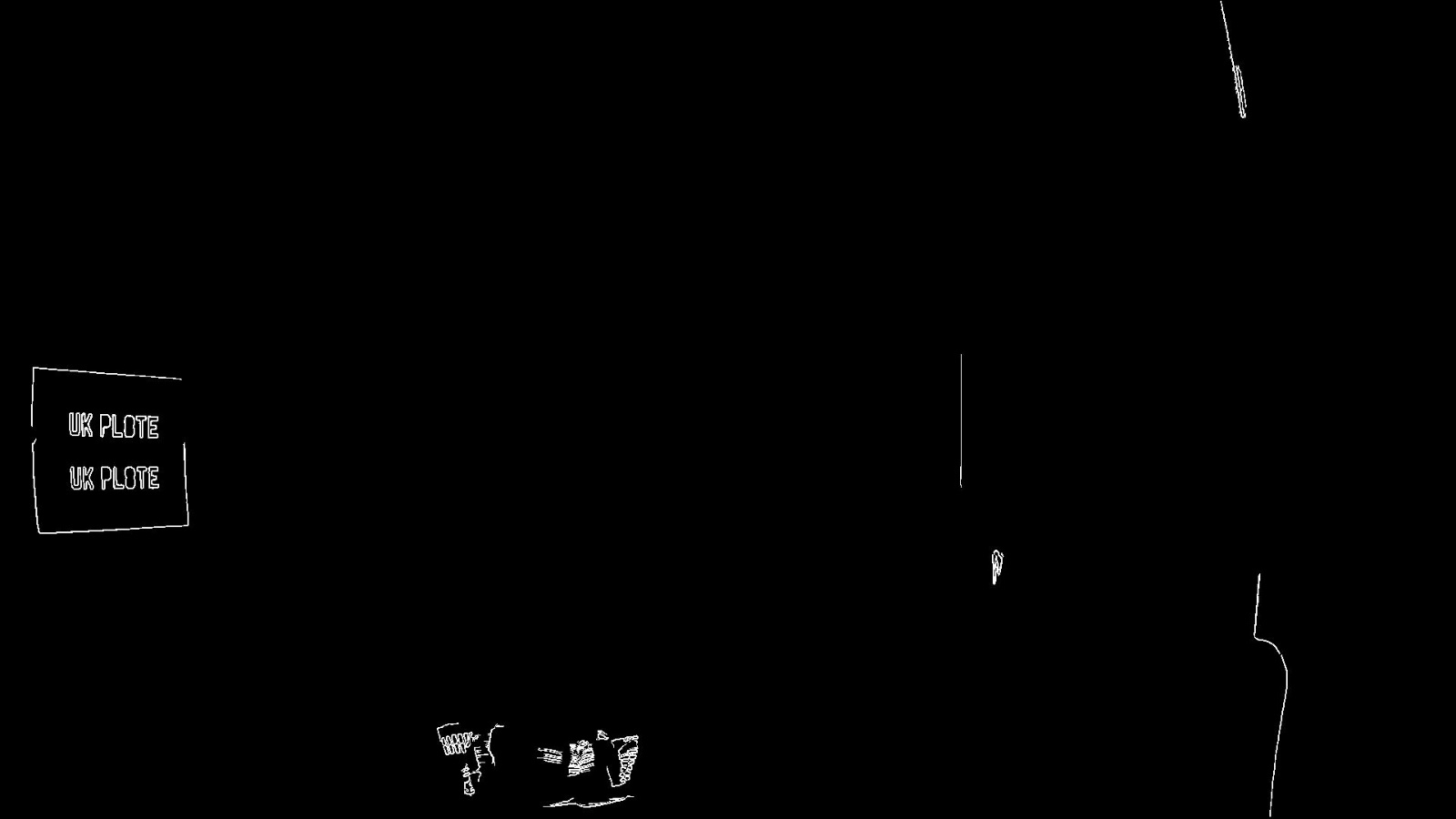
This 480p image is a closer range, hopefully better detectable.

Graphical user interface, diagram

Description automatically generated

Not much better, lettering still too pixel poor to create properly enclosed letter spaces. Notably the bounding box for the licence plate is still moderately accurate. In general I think I should aim for the highest resolution feasible when working with hardware.

Possibility of using the bwareafilt function to get all white pixel shapes that have a size within a given range:



The above is a 1080p image with filters set to take all shapes within 100-1000 pixels, not working for detection by itself but could be useful elsewhere. Problems would probably emerge as tracked plate will change pixel size across image sequence.

17/10/2022 – Video testing

Might get some more useful data if I try to work on tacking the plate across a video. Created some short footage of me walking across a room.

Found a way to split video into single frames and process those. Working on 1080p video now.

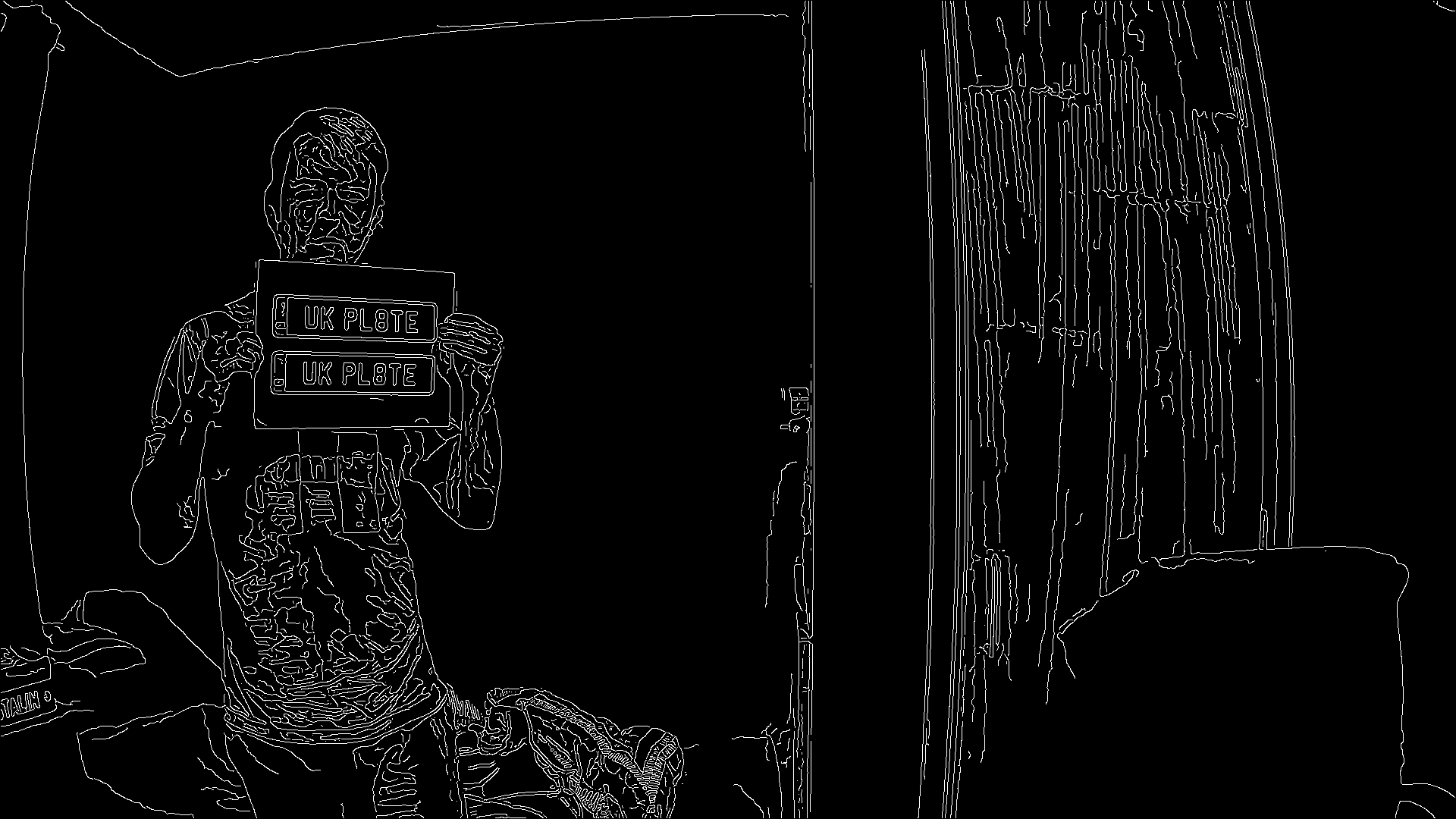
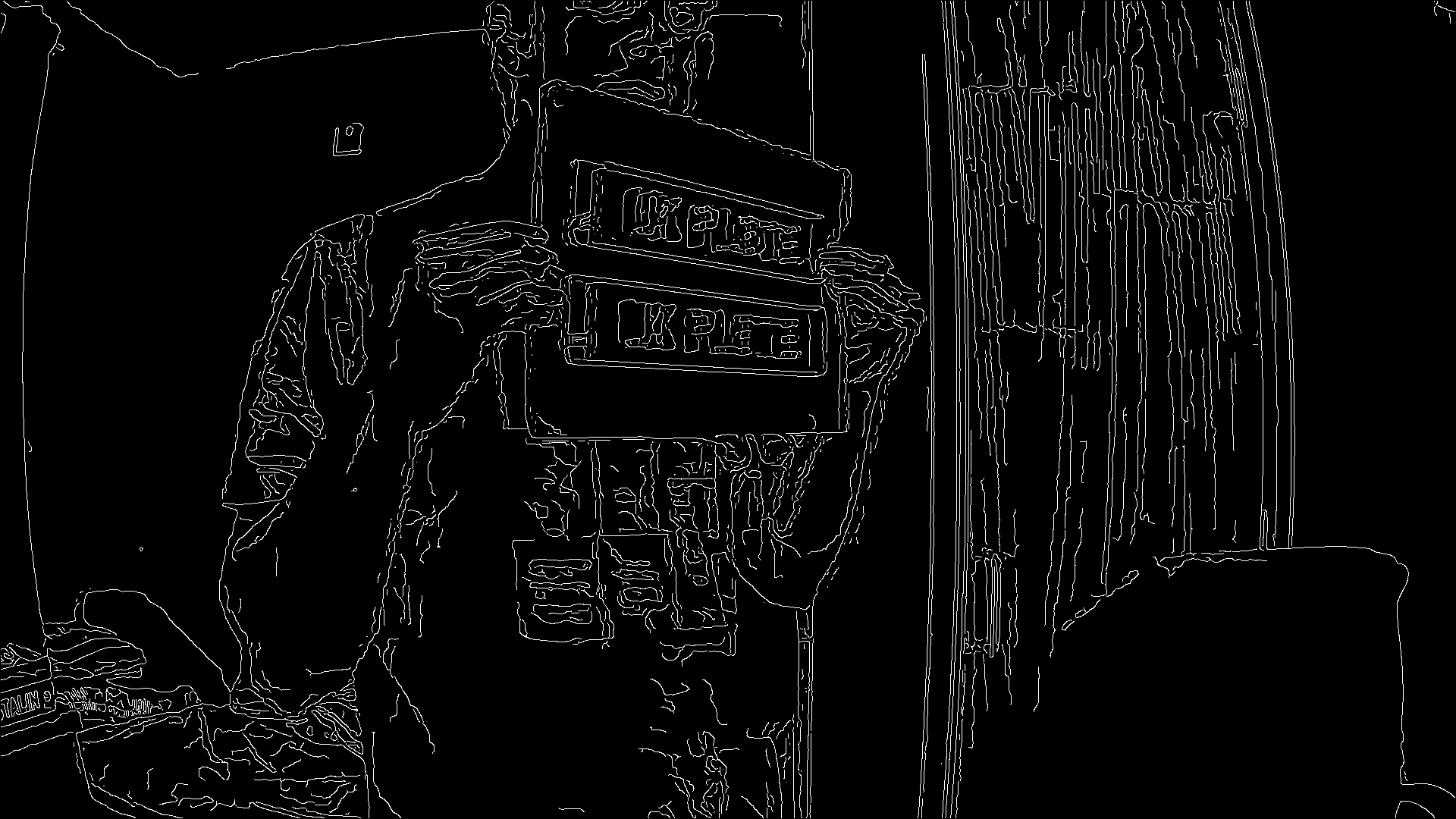


Not great, motion blur ends up being a severe problem for the system, also the angle may be too steep for the entire 

Not much better in the other direction. Maybe angle is too steep, will try to create a video simply advancing straight towards camera. Notably the processing takes a concerning long time even on desktop, hoping that most of that is MATLAB overhead and not core functionality to the algorithm.



Issue with motion can be seen quite clearly above, two images are from 10 frames apart. Motion appears to immediately destroy the edge information in the sobel filter. Could try the canny edge detection to see if any improvement is made.



Major improvement, in both image clarity while stationary as well as in motion. Some warping observed but I think understanding how the canny edge filter works is now a high priority.

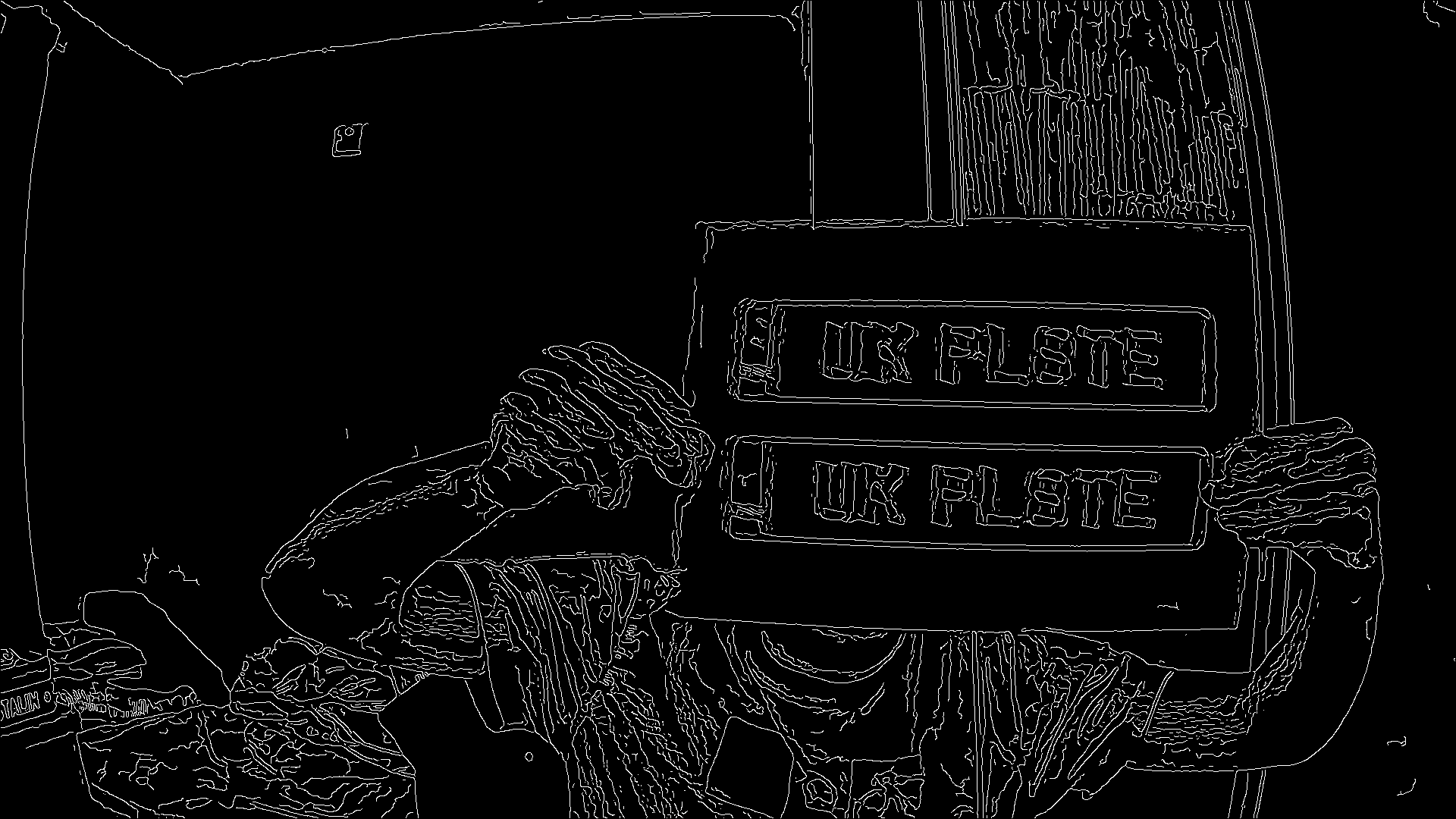


Observing the bounding data, it appears that there will still be an issue with noise from the edged image creating a mess of bounded zones. However, within the range that a plate is even detectable, there will likely be a large retention of the original shape of the plate (assuming a horizontal orientation). This could allow for looking for a specific ratio of bounded area height to width to be viable.



This image above demonstrates the effect of motion blur on my images. Having viewed images taken of speeding vehicles before, this effect is not observed. I will have to see if it is possible to correct or turn off this effect. One suggestion I have seen is to use a more robust video capture software than the windows default, such as OBS.

The above image is from OBS captured footage with MJPEG for video format, while not complete. The motion blur seems reduced.



The same image after canny edge detection seems much clearer as well. I will need to see what the result of a picture run would be for motion blur.

18/10/22 – understanding canny edge detection

Canny edge detection supposedly operates with the following steps:

1. Reducing Noise By Applying Blur.
2. Calculating (sobel) Gradient.
3. Non-Maximum Suppression.
4. Double Threshold.
5. Edge Linking.

A gaussian blur is applied in a similar way that the Sobel filter is, with a kernel creating a new pixel matrix out of the old.

19/10/2022 – cont.

A gaussian filter is used to create a kernel to apply to each pixel a weighting, similar to the graph below.Chart, surface chart

Description automatically generated

This weighting is then used to sum the pixels enclosed inside the kernel, which is then normalized and placed back at the origin pixel. This results in blurring or smoothing seen in the final image.



This would be a difficult task to carry out in image processing, as a complete Sobel filter task would need to be performed alongside another kernel filter. A property of the gaussian filter, however, is that the two elements are separable:



These 2 gaussian filters can then be ran over their respective directions and the result on the kernel will be the same as the combined equation. While this still requires polling each element within the kernel, this requires far less memory to hold 2 N tap pixel weights arrays than 1 N\*N matrix.

The storage of these values becomes even simpler by using a binomial coefficient list, which only contains positive integers, and a scaling factor applied that is the inverse of the sum of the list. I will attempt to use this information to create a gaussian filter custom to my needs.

I have made the filter, with some promising results when given to a Sobel operator.

A picture containing text, person, indoor, hand

Description automatically generated

While this image may appear to be only mildly altered, the results in Sobel when compared to an unsmoothed image are clear.

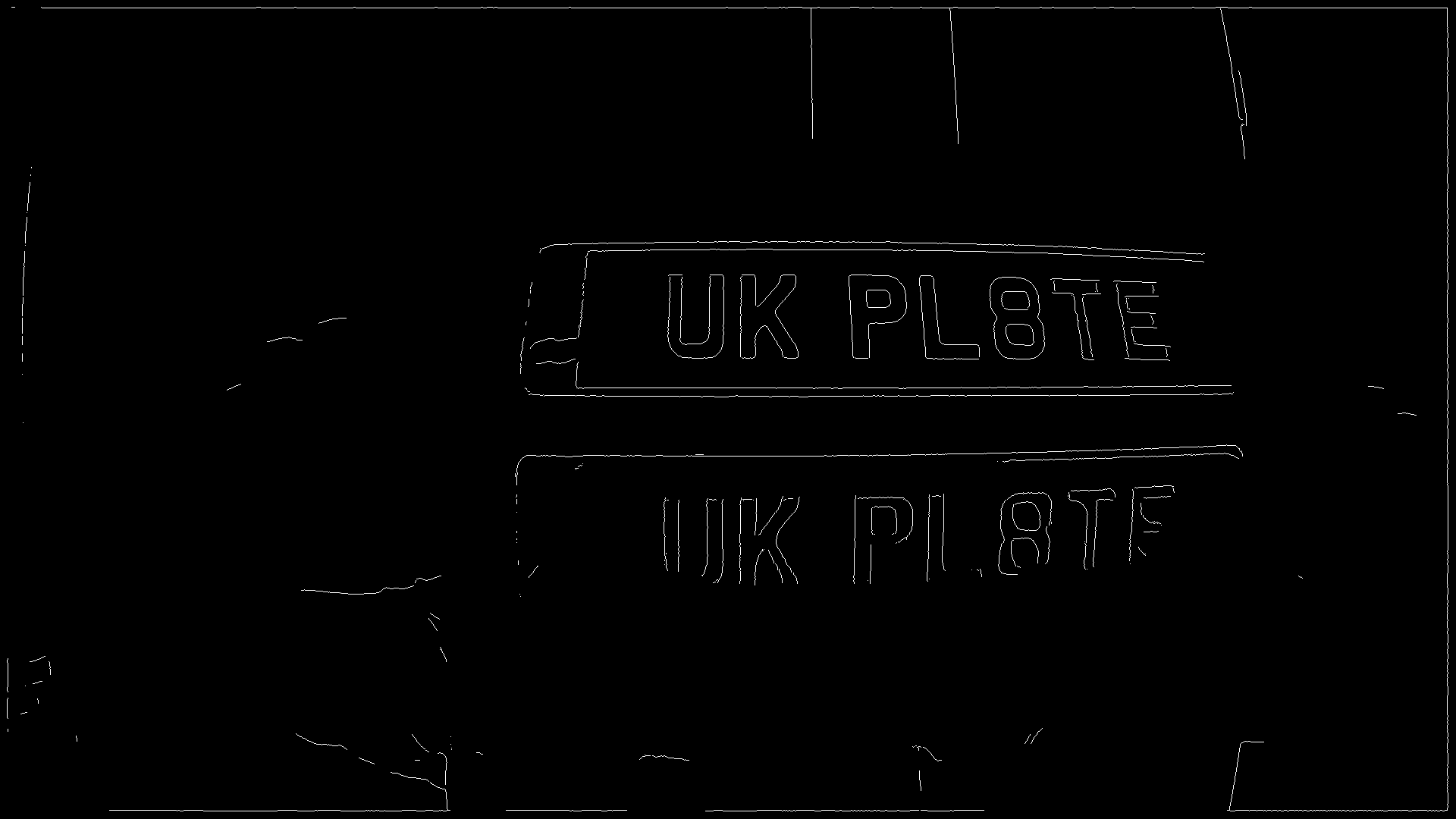
A picture containing text

Description automatically generatedA picture containing text

Description automatically generated

The bottom image compared to the top has far less noise and the letters can be read clearly in the edge detection. Testing shows that a larger kernel results in a heavier blur, the algorithm could theoretically also be run several times in order to repeatedly blur the image. But as this would require multiple image buffers and blurring seems suitable at this level, I think controlling with the kernel size is best here.

Images in with a degree of motion blur are also improved.



This however has raised an important point surrounding the use of the whole licence plate for tracking the vehicle. The lettering is perhaps even more standardized that the size of the plate, perhaps a bounding box looking for the letters could be gathered and averaged for all letters found to get an average location per image that can be the basis of tracking.

20/10/2022 – letter tracking idea

Looking further into my idea of letter tracking, I used my algorithm to find the edges of a real photo, and the results seem encouraging when using the bounding boxes:

A picture containing text

Description automatically generated

This seems quite promising; all the letters seem to be bounded with a consistent size between them. The licence plate lines are also nonvisible after filtering, confirming a suspicion that they are less useful and consistent than the lettering. The lettering also appears to be more strictly defined in the INF104 document that the actual size of the licence plate.

The full specification for the letters is:

* 1. characters must be 79mm tall
  2. characters (except the number 1 or letter I) must be 50mm wide
  3. the character stroke (the thickness of the black print) must be 14mm
  4. the space between characters must be 11mm
  5. the space between the age identifier and the random letters must be 33mm
  6. the margins at the top, bottom and side of the plate must be 11mm
  7. vertical space between the age identifier and the random letters must be 19mm

Points 1 and 2 seem the most relevant here. Taking the ratio of letter width to height (50:79 -> 1:1.58) gives me a tool to look for bounded areas fitting this size ratio (W:H - > x:y distance). By taking y/x for a given bounding box and checking its closeness to 1.58 I could potentially extract the bounding boxes for all the letters.

Having attempted to use my own custom Sobel filter code and comparing it to the MATLAB provided Sobel, I can see some clear differences:

Text

Description automatically generated

Text

Description automatically generated

My code on the bottom clearly generates thicker boarders and occasionally leaves holes in the letters, meaning the bounding box fails to detect them. I suspect some degree of linking and line thinning is going on behind the MATLAB code. I will use the MATLAB Sobel code for now as it seems more consistent.

Text

Description automatically generated

This was captured with 5% tolerance on the size of the letters. Not a great capture, will try a higher tolerance.A screenshot of a computer

Description automatically generated with medium confidence

A lot of these captures are outright incorrect, something is likely wrong with my code.

Graphical user interface

Description automatically generated

Turns out I was misinterpreting the return from the region finder incorrectly, at 10% tolerance the letters appear to be very easy to extract, nothing else was caught in this region filter.

Graphical user interface

Description automatically generated

Performing this filter on the noisy motion blur image had less accurate results. Increasing the tolerance had some positive effect but created a large number of false positives. Perhaps a maximum/minimum region size should be implemented for positives, perhaps a region should be within 1-15% of an images total size to be valid.

Graphical user interface

Description automatically generated

At 20% outside range tolerance in the above. My plan is to then take a cumulative average of these bounding boxes to get an average position to track the vehicle with.

Graphical user interface

Description automatically generated

The ‘average’ bounding box is shown in blue. While its location is somewhat accurate, some filtering of false positives is needed to prevent skewing.

24/10/2022 – filtering of false positives

I have a set of ideas that could be used together to filter the false positives. First perhaps a crude filter should be used to remove obvious fails, a 5-20% of image size bounding box limit should filter out the tiny areas that were picked up.

Realized something, area scales quickly with image size, and any small section of area will be much smaller than the total area of an image. This is probably why my algorithm has 0 hits for valid boxes as 5% of this size is still immense compared to any bounding box. Might want to try width or height bounding as this scales linearly with the image size, something percentages work well with.

Graphical user interface

Description automatically generated

Width bounding within 5-20% of image size appears to work very well, average box is well centered.

A screenshot of a computer screen

Description automatically generated with low confidence

This technique seems to need some refining based on image size (above is 4608x3456).

A picture containing outdoor object, web

Description automatically generated

Even with threshold adjustments (1-10% for above), it seems that further detail will need to be given to the bounding boxes I select.

Another idea I had was to take the biggest set of cords that were within a certain range of each other. The symbols on a number plate are relatively well grouped together. What could be done is some minor statistics on the coordinates of the bounding boxes to find the largest set grouped within a certain x and y range of each other. This should work as, if other filtering has worked properly, the system should be detecting the highest density of boxes at the licence plate.

Background pattern

Description automatically generated

The boxes that pass the ratio test are in red, passes for the size limit are in yellow and the closely grouped set is in green with the average of the set in blue. As can be seen there was a previously unknown group of areas in the windows. This is technically my algorithm working correctly, as this appears to be the most consistent and lined up set of bounding boxes in the image.

I think a further amount of selection will be needed, one idea I thought of previously was originally a method of saving processing time. Image subtraction could be used to find the area of activity, and a bounding box drawn to create a sub image to only work on areas where motion was detected. With this method I could exclude all stationary elements and only have my algorithms ‘observe’ the moving vehicle, ignoring anything that would be otherwise hard to filter out.

25/10/2022 – Ordering parts

Ordered a Pi Pico. Ordered a small greyscale SPI camera module: <https://thepihut.com/products/qvga-spi-camera-module-for-raspberry-pi-pico-hm01b0>

Ordered a 5MP SPI camera module from university requisitions: <https://www.amazon.co.uk/Arducam-Module-Megapixels-Arduino-Mega2560/dp/B013JUKZ48>

27/10/22 – motion masking

My aim today is to create a system that can take video and create a bounding box based on where it thinks motion has occurred. It will then use this system to mask the frame and output.



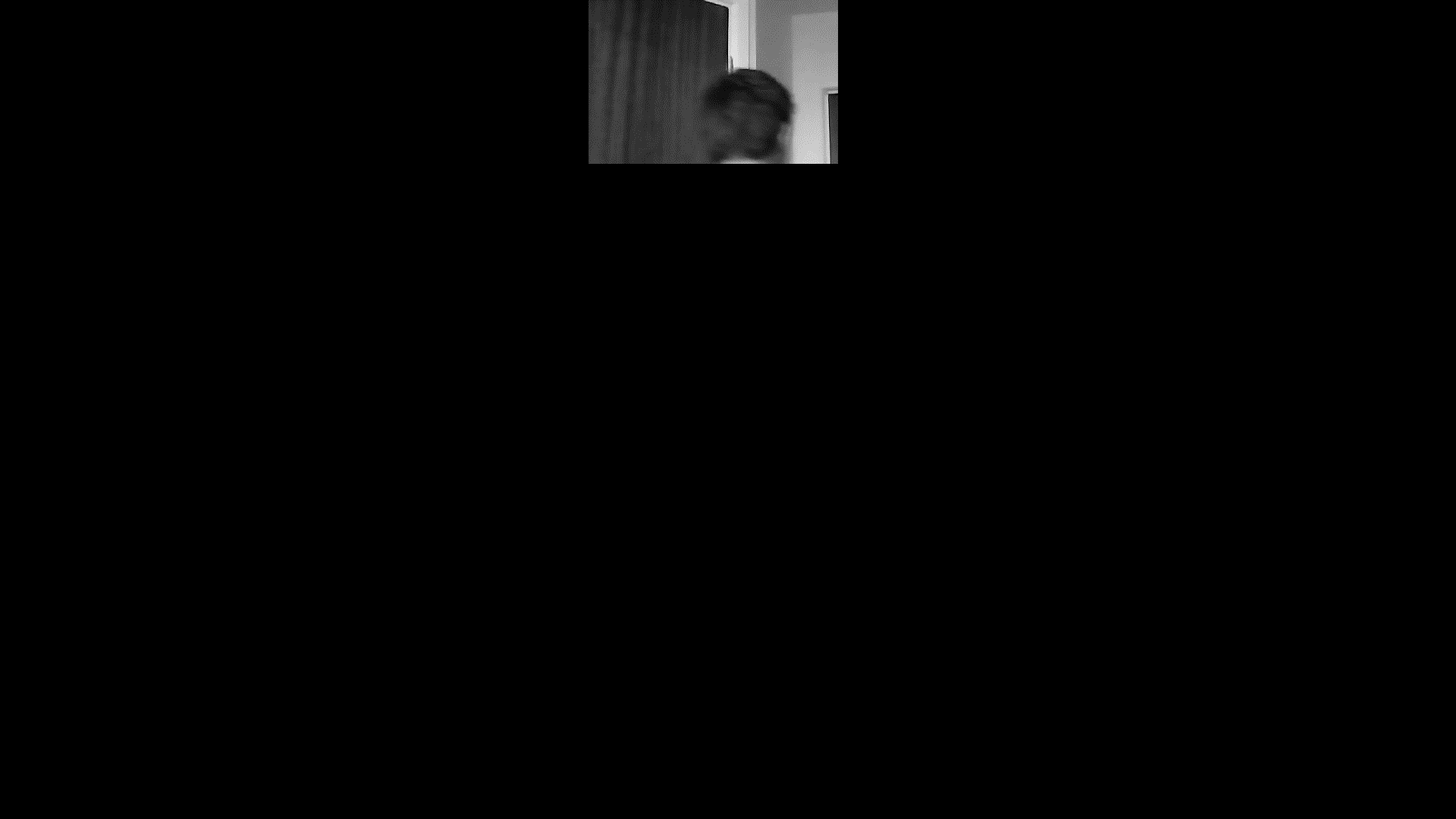
Using a simple image subtraction function, the current frame has been subtracted from the baseline. Some noise cleaning will need to occur, but otherwise this seems suitable for creating a bounding box algorithm for.



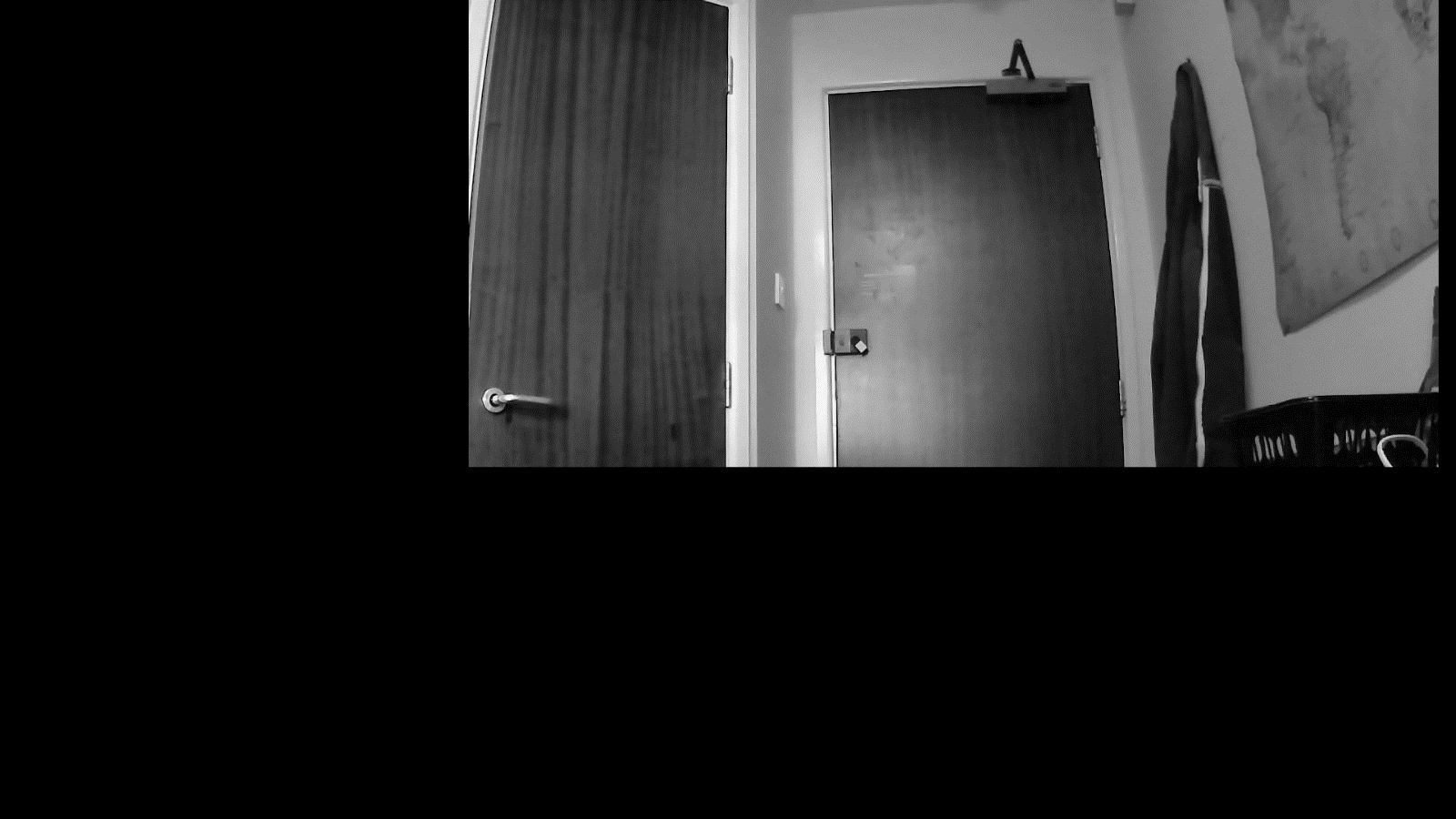
This seems to be less overall noisy, although this does in turn introduce the need to perform blurring on the entire image. Perhaps the bounding box can be constructed without the blurring.

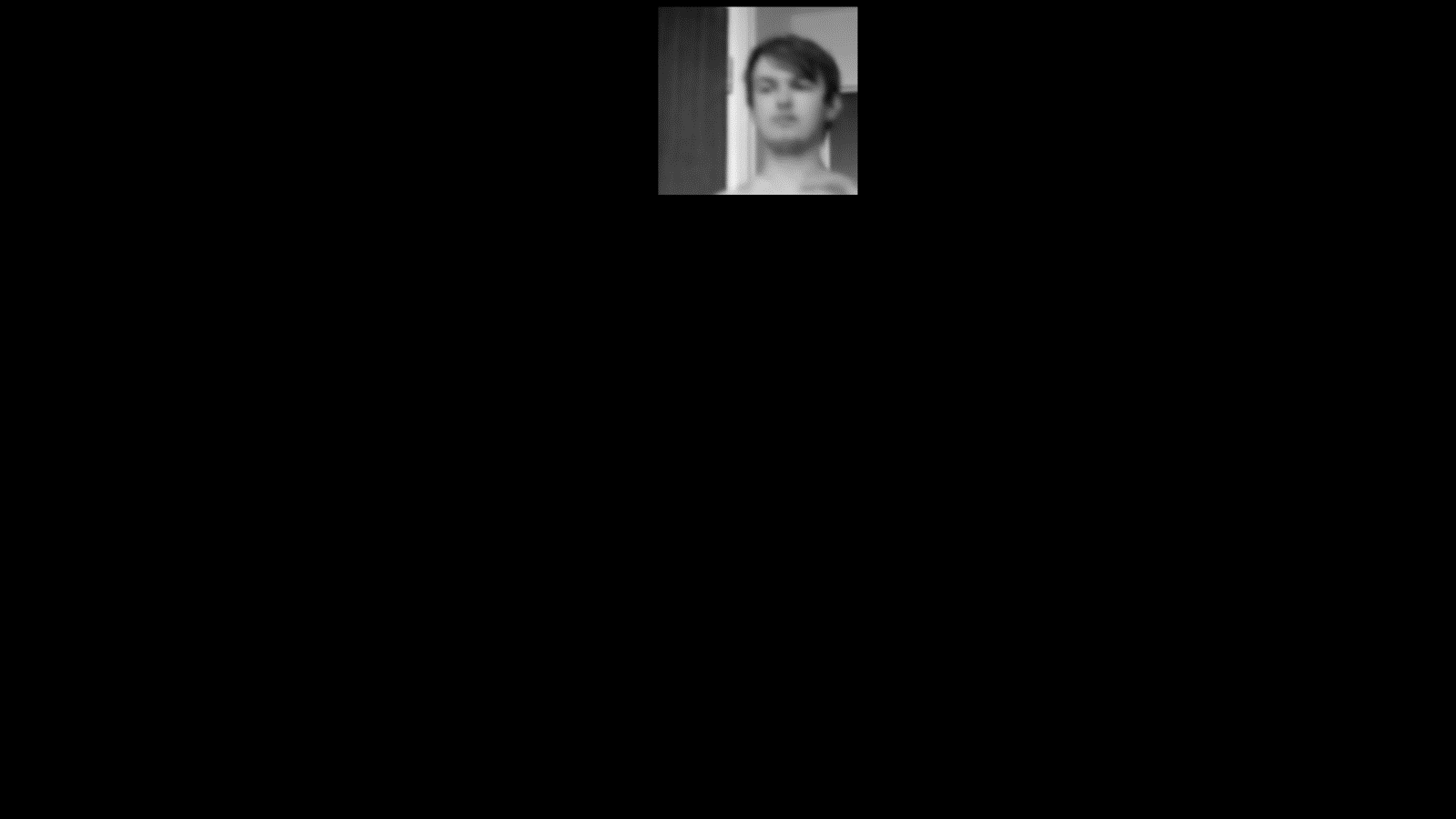


This was done without the blurring, it seems to work, despite the result being inverted to what I would want. My logic appears sound.



The primary issue here appears to be that the algorithm isn’t sensitive enough, this is fine and controllable, but I was hoping that the motion would be more prominent.

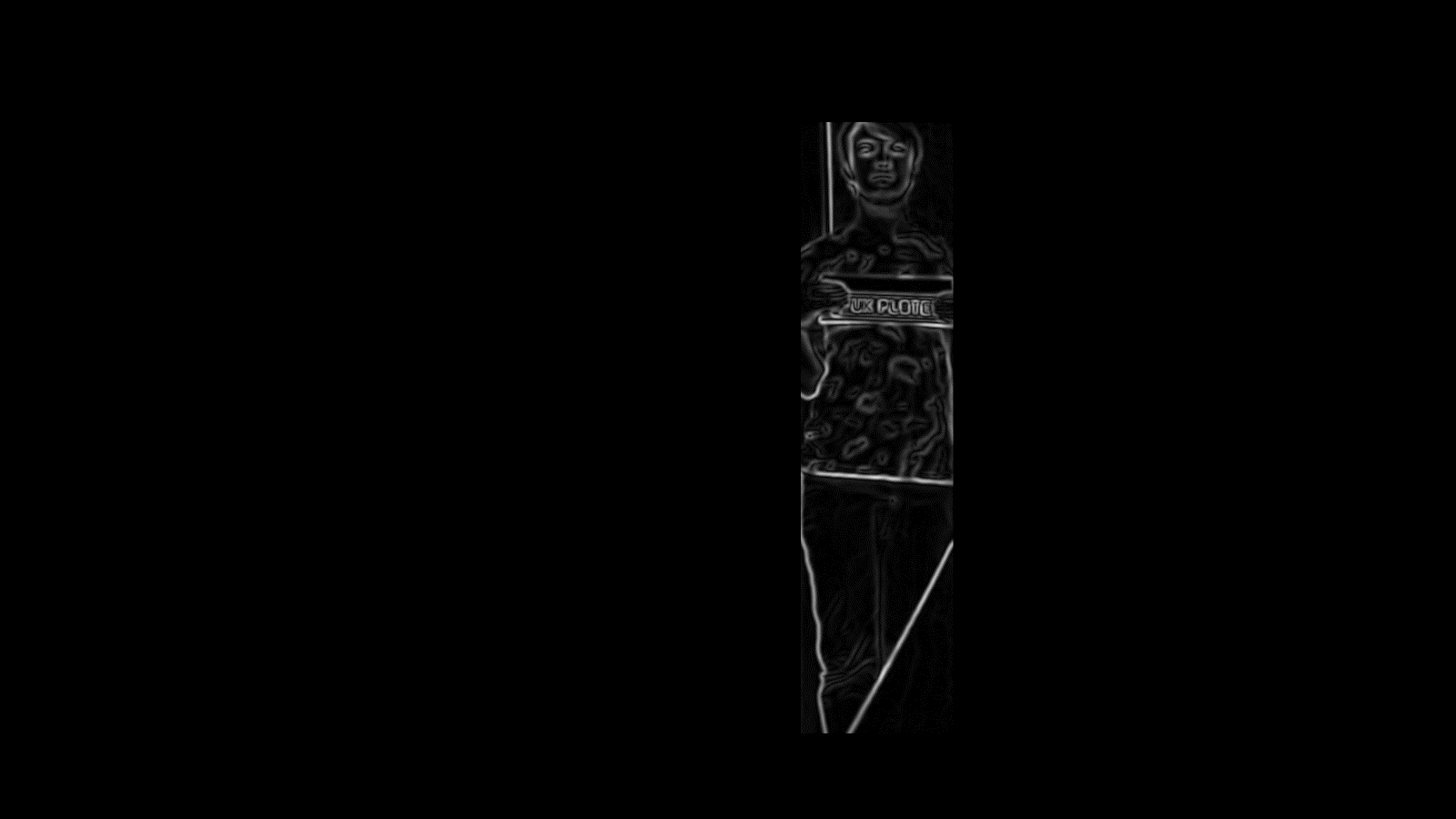


Taking the sensitivity down hasn’t fixed the problem, I think the gaussian blur will be necessary.

This does not seem much of an improvement. Even controlling the threshold for motion lower seems to not solve this problem. I will need to figure out if my footage is bad or my algorithm is.

29/10/2022 – application of sobel

New idea, since noise appears to be the issue here, what if both the background and new frame had sobel applied to them. This could allow for a greater level of differentiation of the useful information.



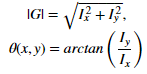
This appears to be far more effective. The unfortunate part is that this means that the 2 more intensive edge detection steps, gaussian blur and Sobel filter, need to be performed on the entire image before the reduced image can be used.



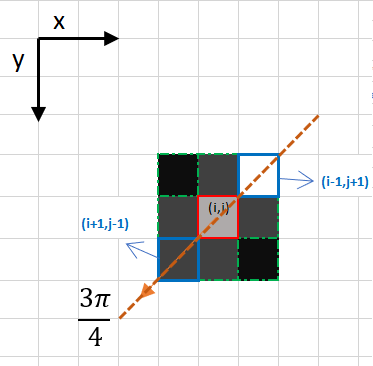
Still, with some controlling for the threshold where motion is detected. This seems to be a very effective way to bound the search area for the licence plate numbers.

29/10/2022 – Theta and non-maximum suppression

Apparently in the Sobel filter there is a second value produced for each pixel besides intensity, edge direction or angle.



This angle is then used to perform non-maximum suppression.



For a given pixels direction, the two adjacent pixels in that direction are compared. The pixel with the highest value is preserved, and the centre pixel is set to 0, unless the centre pixel itself is the highest, in which case it is preserved.

Preserving angles is definitely a problem for storage, as doubles would be far to costly in this amount. The fact that there are only 4 unique directions could help me here (up->down and down->up result in identical operations). If I can find a way to skip the arctan function and calculate the result directly, then I could save a large amount of time and memory.

Finding these angles, and converting them out of radians, we can see some pattern to their values.

Table

Description automatically generated

From this we can already identify 3 of the 4 possible states: If Gy = 0 -> Ang = 0 (up-down). If Gx = 0 -> Ang = 90 (left-right). If Gx and Gy are both have same sign -> Ang = 45 (bottomLeft-UpperRight).

The fourth state can be identified as being when Gx xor Gy are negative, creating Ang = -45 (UpperLeft-BottomRight).

This covers all the possible directions. Testing will need to be conducted to see the results of a system that applies this principle to remove non-maximums.