In [1]:

```
import cv2
import numpy as np
import matplotlib.pyplot as plt
```

In [2]:

```
imagePath = './data/russianplate.jpg'
cascPath = './xml/haarcascade_russian_plate_number.xml'

# Create the haar cascade
rpcascade = cv2.CascadeClassifier(cascPath)

# Read the image
image = cv2.imread(imagePath)
imageRGB = cv2.cvtColor(image, cv2.COLOR_BGR2RGB)
gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)

# Detect faces in the image
plate = rpcascade.detectMultiScale(gray, minNeighbors=5, minSize=(20, 20))

# Draw bounding box
for (x, y, w, h) in plate:
    cv2.rectangle(imageRGB, (x, y), (x+w, y+h), (255, 0, 0), 2)

# display
plt.figure(figsize=(15, 15))
plt.imshow(imageRGB)
```

Out[2]:

```
<matplotlib.image.AxesImage at 0x2b6d0dcc488>
```

In [ ]: