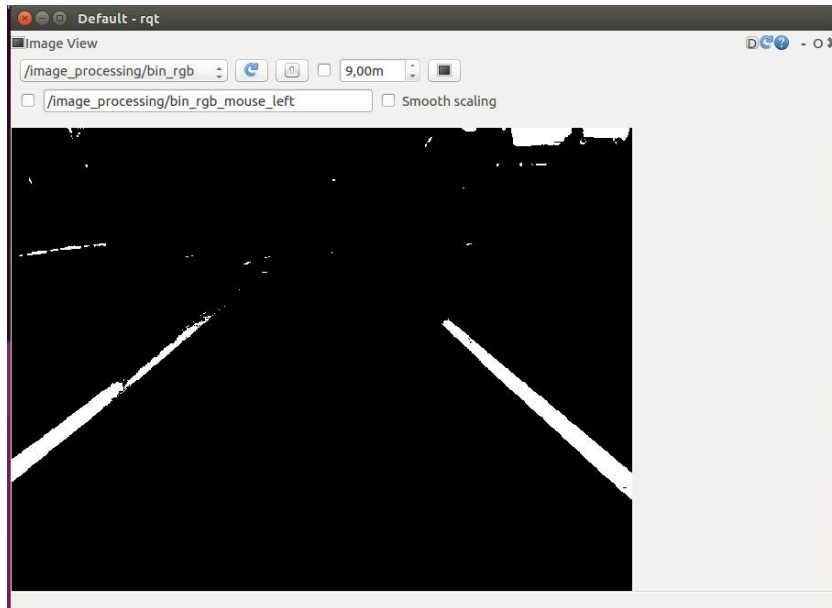


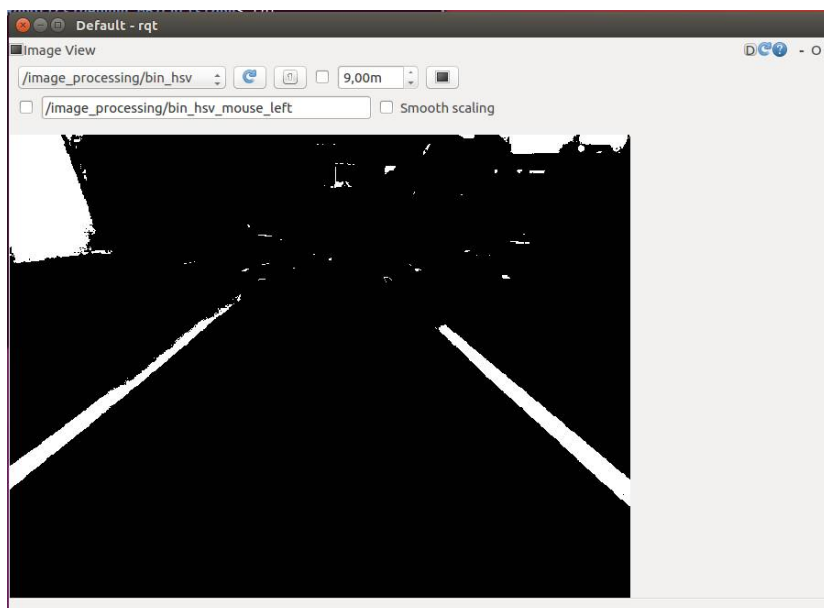
All Code can be found at: https://github.com/chbrock/robotik_ws1718

Aufgabe 2

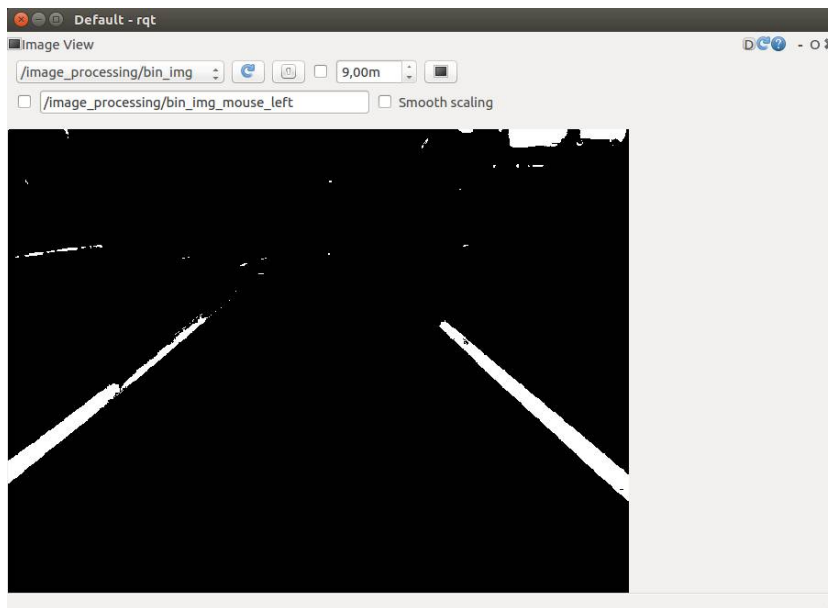
For BGR we summed up all channels using Numpy and used a Threshold of about $3 \cdot 200$ on these sums:



In HSV we simple created a mask using any pixel where $V > 200$:



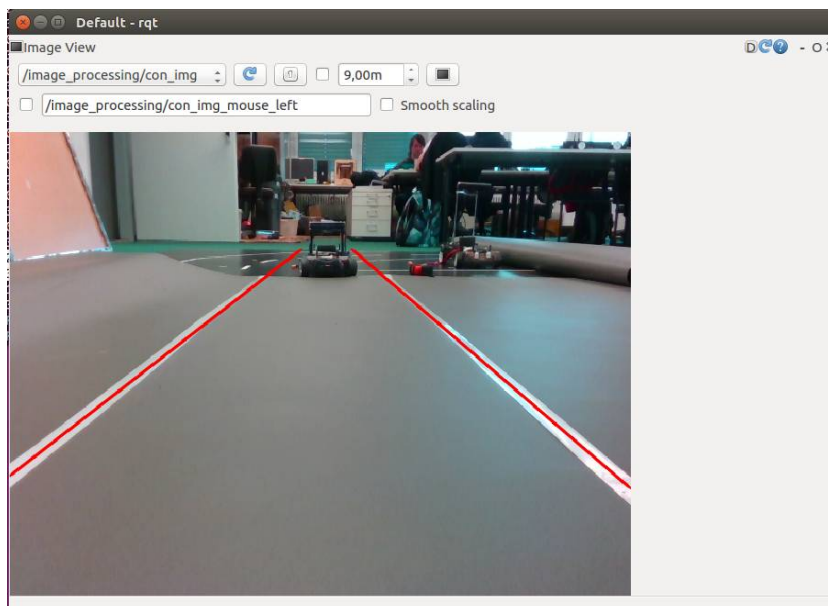
Finally, we used Grayscale as befor also using a threshold of 200:



It seems that HSV is most suitable for finding white Areas since the V channel directly reports something like 'whiteness'.

Aufgabe 3

Starting from the last separation, we used OpenCV findContours() to find the two largest contours in the lower two-thirds of the image to which we fitted two RANSAC models from scikit-learn.



Lanes and parameters look then like this where $x = m \cdot y + b$

m1:	0.85937895966	b1:	-302.425105781
m2:	-0.778466173664	b2:	233.386829508