EYE DETECTION LOGIC

Image □ Input to Detection Pipeline

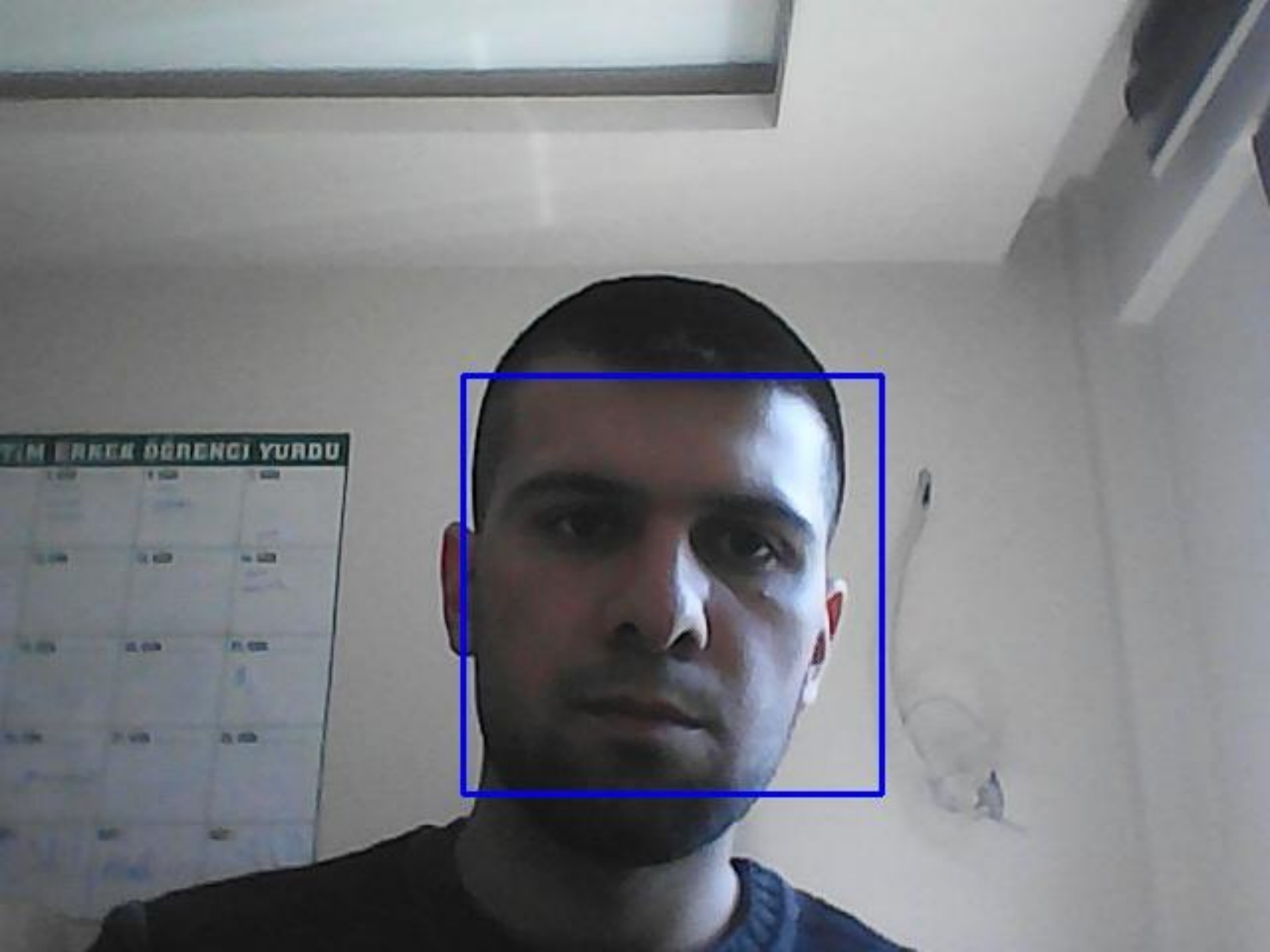
Python Code □ eye_cascade.detectMultiScale(roi_gray, 1.1, 10)

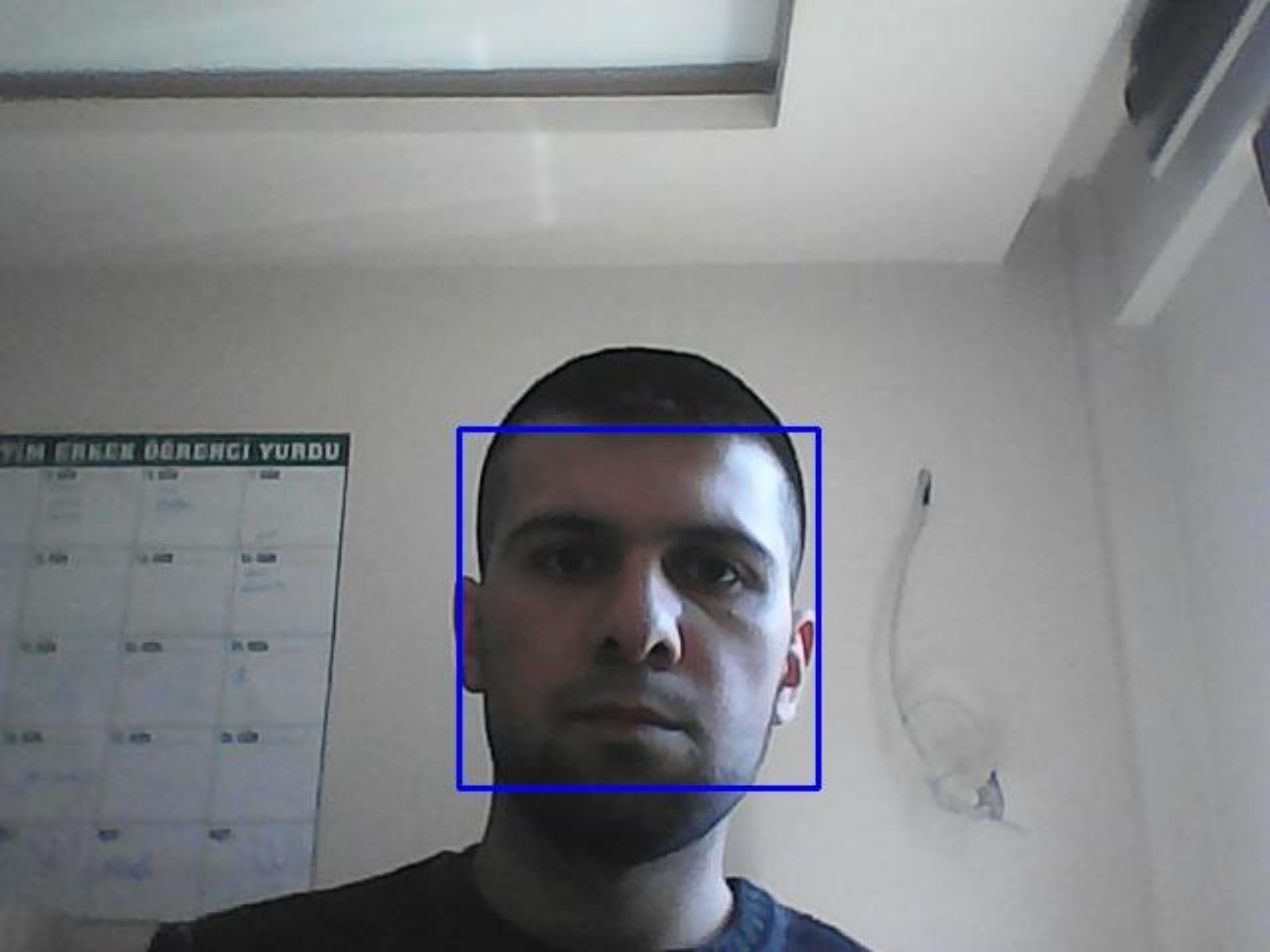
C Code □ cvHaarDetectObjects(eye ROI, cascade, ...)

Assembly □ SCAN ROI -> CMP brightness -> JMP if shape

Machine Code □ 3C 5F | 7E 04 | EB 02 ...

Output □ Detected eye: ex, ey, ew, eh


ERKEK ÖĞRENCİ YURDU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FACE DETECTION LOGIC

Image □ Input to Detection Pipeline

Python Code □ face_cascade.detectMultiScale(gray, 1.3, 5)

C Code □ cvHaarDetectObjects(gray, cascade, ...)

Assembly □ LOOP -> CMP pixel intensity -> JMP

Machine Code □ 3C 7F | 7F 05 | EB 03 ...

Output □ Detected face: x, y, width, height

MOUTH DETECTION LOGIC

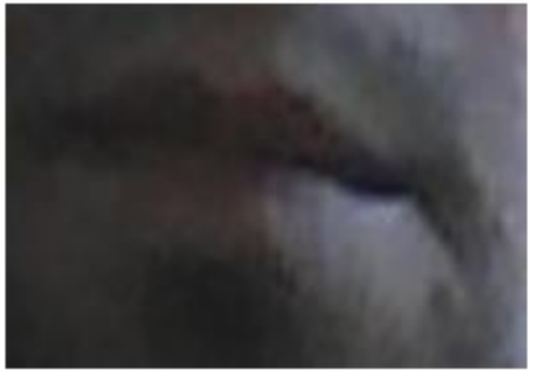

Image □ Input to Detection Pipeline

Python Code □ mouth_cascade.detectMultiScale(roi_gray, 1.5, 11)

C Code □ cvHaarDetectObjects(mouth ROI, ...)

Assembly □ LOOP over lower half -> CMP -> JMP

Machine Code □ 3C 60 | 7C 03 | EB 01 ...

Output □ Detected mouth: mx, my, mw, mh