

LAMPIRAN

A. Program Lengkap Penggerak WebCam Berdasarkan Deteksi Objek :

```
imaqreset

vid = videoinput ( 'winvideo' , 1 , 'RGB24_640x480' );

aviObject = avifile ( 'myVideo.avi' , 'fps' , 2);

triggerconfig ( vid , 'manual' );

start ( vid );

a = [1 1 1 0];

dio = digitalio ( 'parallel' , 'LPT1' );

addline(dio,0:3,0,'out');

while 1

    pic1 = getsnapshot ( vid );

    picG = rgb2gray ( pic1 );

    lpic1 = picG ( :,1:160 );

    lsumtot1 = sum (sum( lpic1 ));

    rpil1 = picG ( :,481:640 );

    rsumtot1 = sum (sum( rpil1 ));

    pic2 = getsnapshot ( vid );

    pic2G = rgb2gray ( pic2 );

    imshow( pic2 );

    fpic = abs(picG-pic2G);

    lfpic = fpic ( :,1:160 );
```

```

lfsumtot = sum (sum( lfpic ));

rfpic = fpic ( :,481:640 );

rfsumtot = sum (sum( rfpic ));

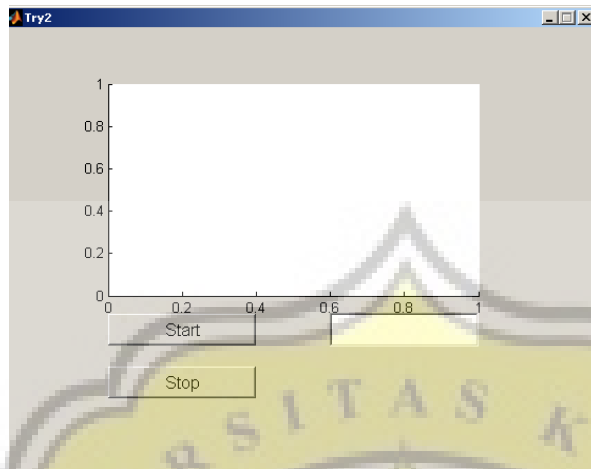
lrange = lfsumtot/lsumtot1;

rrange = rfsumtot/rsumtot1;

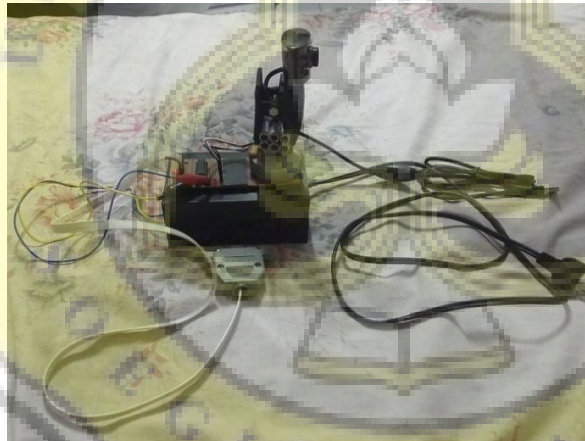
if lrange > rrange && lrange >= 0.05
    a = circshift ( a, [0 1]);
    putvalue(dio,a);
    x='kiri'
elseif rrange > lrange && rrange >= 0.05
    a = circshift ( a, [0 -1]);
    putvalue(dio,a);
    x='kanan'
else x='diam'
end
pause(0.5)
F = im2frame (pic2);
aviObject = addframe ( aviObject, F );
end

```

B. Tampilan GUI



C. Foto Alat



E. Skema Rangkaian Driver Motor Stepper

