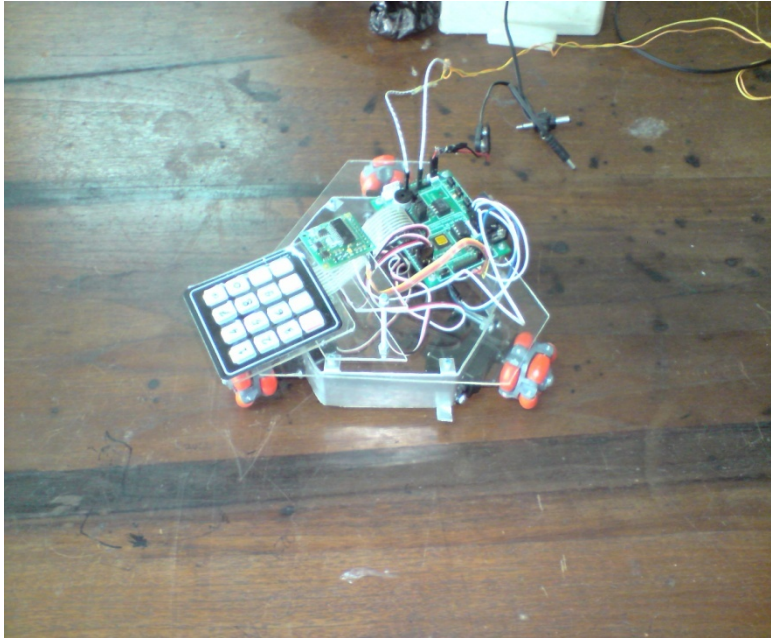
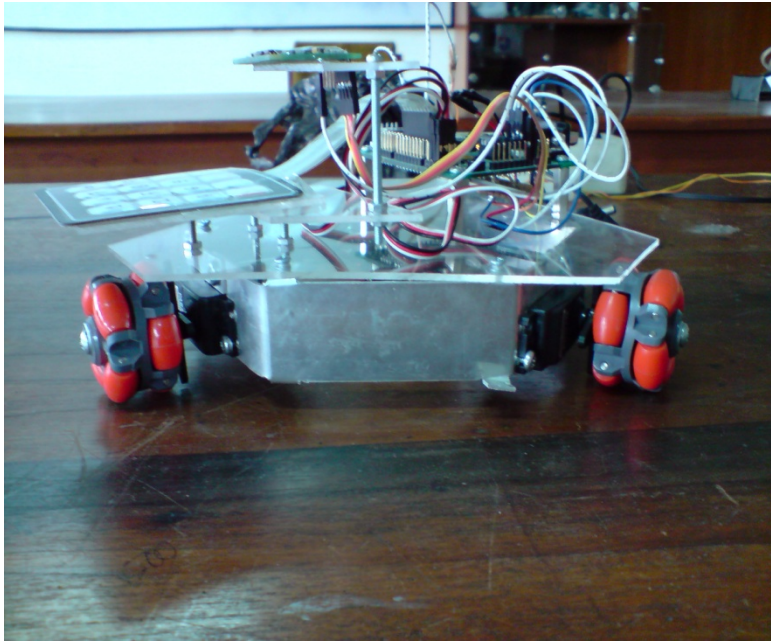
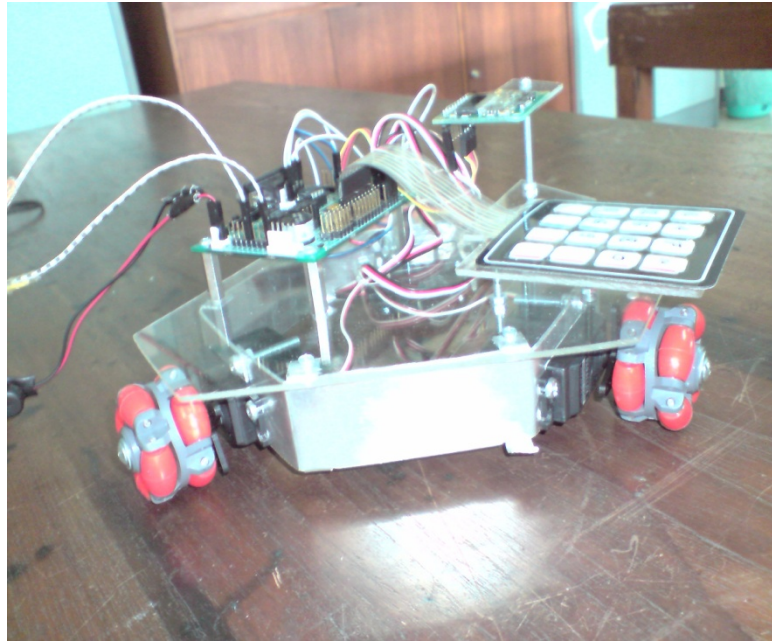


**LAMPIRAN A**  
**FOTO ROBOT MOBIL HOLONOMIC**





**LAMPIRAN B**  
**PROGRAM PADA PENGONTROL MIKRO**  
**OOPic-R**

## PROGRAM UTAMA

```
Dim A As New oKeypad
Dim BB2 As New oDIO1
Dim BB3 As New oDIO1
Dim data1 As New oByte
Dim data2 As New oByte
Dim data4 As New oWord
Dim data5 As New oWord
Dim data3 As New oByte
Dim input As New oWord
Dim Compass As New oI2C
Dim Bearing As New oByte
Dim a1 As New oByte
Dim b1 As New oByte
Dim vx As New oByte
Dim vy As New oByte
Dim omega1 As New oWord
Dim omega2 As New oWord
Dim omega3 As New oWord
Dim bx As New oWord
Dim by As New oWord
Dim s1 As New oWord
Dim s2 As New oWord
Dim s3 As New oWord
Dim serv1 As New oServoSP1
Dim serv2 As New oServoSP1
Dim serv3 As New oServoSP1
Dim count As New oWord
```

```
Sub Main()
  BB2.IOLine = 6
  BB2.Direction = cvOutput
  BB3.IOLine = 5
  BB3.Direction = cvOutput
```

```
Call keyinput1
```

```
serv1.IOLine = 1
serv1.Operate = cvTrue
serv1.InvertOut = cvTrue
serv2.IOLine = 2
serv2.Operate = cvTrue
serv2.InvertOut = cvTrue
serv3.IOLine = 3
serv3.Operate = cvTrue
serv3.InvertOut = cvTrue
```

```
For count.Value = 0 To 16
  input.Signed = 1
  vx.Signed = 1
  vy.Signed = 1
  a1.Signed = 1
  b1.Signed = 1
  bx.Signed = 1
  by.Signed = 1
  omega1.Signed = 1
  omega2.Signed = 1
  omega3.Signed = 1
```

```
s1.Signed = 1
s2.Signed = 1
s3.Signed = 1
data4.Signed = 1
data5.Signed = 1
```

```
vx = 0
vy = 0
bx = 0
by = 0
a1 = 0
b1 = 0
input = 0
omega1 = 0
omega2 = 0
omega3 = 0
s1 = 0
s2 = 0
s3 = 0
```

```
Call init
```

```
    If input > 256 Then
        input = input - 256
    EndIf
```

```
    If input > 256 Then
        input = input - 256
    EndIf
```

```
    If input > 256 Then
        input = input - 256
    EndIf
```

```
    a1 = Sin (input)
    b1 = Cos (input)
```

```
    'kuadran I
    If input < 64 Then
        vx = b1 * 100 / 127
        vy = a1 * 100 / 127
```

```
    'kuadran II
    ElseIf input < 128 Then
        vx = (255 - b1)
        vx = vx * 100 / 127
        vy = a1 * 100 / 127
        vy = Not (vy) + 1
```

```
    'kuadran III
    ElseIf input < 192 Then
        vx = (255 - b1)
        vx = vx * 100 / 127
        vx = Not (vx) + 1
        vy = (255 - a1)
        vy = vy * 100 / 127
        vy = Not (vy) + 1
```

```
    'kuadran IV
    Else
        vx = b1 * 100 / 127
        vx = Not (vx) + 1
```

```

        vy = (255 - a1)
        vy = vy * 100 / 127
    EndIf

    bx = 50 * vx
    by = 86 * vy

    omega1 = -1 * vx
    omega2 = (bx - by) / 100
    omega3 = (bx + by) / 100

    s1 = (omega1 / 5) + 70
    s2 = (omega2 / 5) + 70
    s3 = (omega3 / 5) + 70

    serv1 = s1
    serv2 = s2
    serv3 = s3
    ooPIC.Delay = 100
    Next count.Value
        serv1.Speed = 0
        serv2.Speed = 0
        serv3.Speed = 0
        BB3.Value = 0
        count = 0
    Call Main
End Sub

Sub init()
    Compass.Node = 96
    Compass.Mode = cv10Bit
    Compass.NoInc = 1

    Compass.Location = 1
    Compass.Width = cv8Bit
    Bearing = Compass.Value

    input = 256 - Bearing + data5
End Sub

Sub sini()
    BB2.Clear
    BB3.Value = 1
    data5 = data4 * 32 / 45
End Sub

Sub keyinput1()
    A.Mode = 1
    A.Operate = 1
    BB2.Value = 1
    data1 = 0
    Do
        data1 = A.Key
    Loop Until A.Received = 1
    data1 = A.Key
    data1 = A.Key
    A.Operate = 0
    BB2.Clear

```

```

ooPIC.Delay = 100

Call keyinput2
End Sub

Sub keyinput2()
A.Mode = 1
A.Operate = 1
BB2.Value = 1
data2 = 0
    Do
        data2 = A.Key
    Loop Until A.Received = 1
data2 = A.Key
data2 = A.Key
A.Operate = 0
BB2.Clear
ooPIC.Delay = 100

    If (data2 == 14) Then
        data4 = data1
        Call sini
    Else
        data4 = (data1 * 10) + data2
        Call keyinput3
    End If
End Sub

Sub keyinput3()
A.Mode = 1
A.Operate = 1
BB2.Value = 1
data3 = 0
    Do
        data3 = A.Key
    Loop Until A.Received = 1
data3 = A.Key
data3 = A.Key
A.Operate = 0
BB2.Clear
ooPIC.Delay = 100

    If (data3 == 14) Then
        data4 = (data1 * 10) + data2
    Else
        data4 = (data1 * 100) + (data2 * 10) + data3
    End If
    Call sini
End Sub

```