

LAMPIRAN A

Listing Program Arduino

Program untuk mengatur Bluetooth

```
#include <SoftwareSerial.h>

SoftwareSerial BTSerial(10, 11); // RX | TX

void setup() {
  pinMode(9, OUTPUT); /* this pin will pull the HC-05 pin 34 (KEY
pin) HIGH to switch module to AT mode */
  digitalWrite(9, HIGH);

  Serial.begin(38400);
  Serial.println("Enter AT Commands:");
  BTSerial.begin(38400); // HC-05 default speed in AT command mode
}

void loop() {

//The code below allows for commands and messages to be sent from
COMPUTER (serial monitor) -> HC-05
  if (Serial.available()) // Keep reading from Arduino Serial
Monitor
    BTSerial.write(Serial.read()); // and send to HC-05

//The code below allows for commands and messages to be sent from
HC-05 -> COMPUTER (serial monitor)
  if (BTSerial.available()) // Keep reading from HC-05 and send to
Arduino
    Serial.write(BTSerial.read()); // Serial Monitor
}
```


LAMPIRAN B

Listing Program Mit App Inventor

```
when Screen1 - Initialize
do
  call YourFont1 - SetFont
  component Label3 -
  to clear
  do
    set TextBox1 - Text - to
    set PasswordTextBox1 - Text - to

initialize global TextBox1 to
initialize global PasswordTextBox1 to

when Button2 - Click
do
  if TextBox1 - Text == get global TextBox1
  then
    if PasswordTextBox1 - Text == get global PasswordTextBox1
    then
      call clear
      call Notifier1 - ShowAlert
      notice Login sukses
      open another screen screenName ScreenMenu
    else
      call clear
      call Notifier1 - ShowAlert
      notice Username dan Password Salah !!!
    else
      call clear
      call Notifier1 - ShowAlert
      notice Username dan Password Salah !!!

when Button1 - Click
do
  close application
```

```
when ScreenMenu - Initialize
do
  call UrsAIZSideBar1 - SetSideBarItems
  ListItems make a list
  Dashboard dashboard
  Panduan menu_book
  Profile person
  Keluar logout

when UrsAIZSideBar1 - Item1Selected
do
  set dashboard - Visible - to true
  set panduan - Visible - to false
  set profile - Visible - to false
  set keluar - Visible - to false
  call UrsAIZSideBar1 - Hide

when UrsAIZSideBar1 - Item2Selected
do
  set dashboard - Visible - to false
  set panduan - Visible - to true
  set profile - Visible - to false
  set keluar - Visible - to false
  call UrsAIZSideBar1 - Hide
  call WebViewer1 - GoToUrl
  url https://drive.google.com/file/d/1pm2mDPB9M4AEIx

when UrsAIZSideBar1 - Item3Selected
do
  set dashboard - Visible - to false
  set panduan - Visible - to false
  set profile - Visible - to true
  set keluar - Visible - to false
  call UrsAIZSideBar1 - Hide

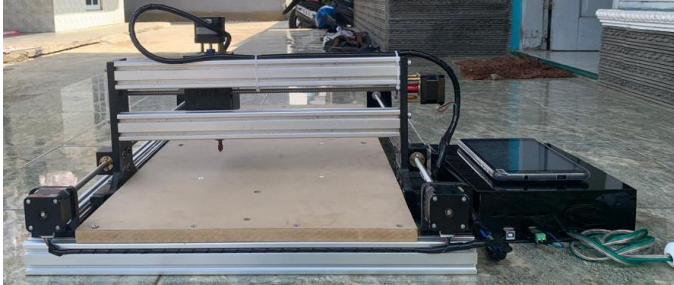
when UrsAIZSideBar1 - Item4Selected
do
  set dashboard - Visible - to false
  set panduan - Visible - to false
  set profile - Visible - to false
  set keluar - Visible - to false
  close application
```

```
when btn1 Click
do
  set ActivityStarter1 Action to android.intent.action.VIEW
  set ActivityStarter1 ActivityPackage to com.brakefield.idfree
  set ActivityStarter1 ActivityClass to com.brakefield.idfree.ActivityStartup
  call ActivityStarter1 StartActivity
```

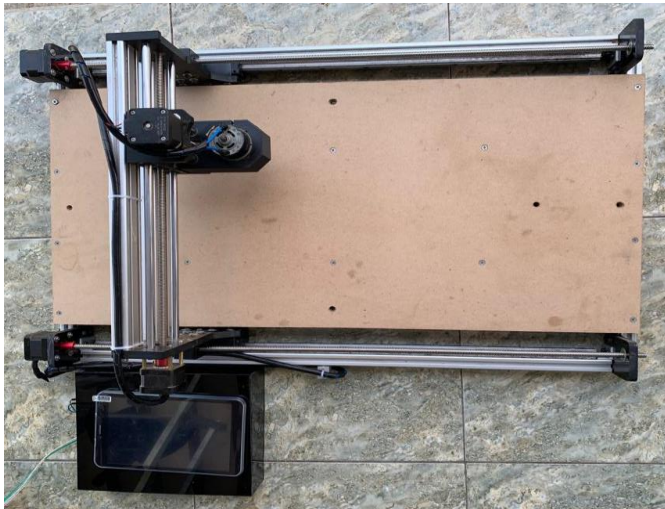
```
when btn2 Click
do
  set ActivityStarter1 Action to android.intent.action.VIEW
  set ActivityStarter1 ActivityPackage to com.companyname.image_to_gcode
  set ActivityStarter1 ActivityClass to crc6440de60fb0b06b6a.MainActivity
  call ActivityStarter1 StartActivity
```

```
when btn3 Click
do
  set ActivityStarter1 Action to android.intent.action.VIEW
  set ActivityStarter1 ActivityPackage to de.athoe.g_code2grbl
  set ActivityStarter1 ActivityClass to de.athoe.g_code2grbl.MainActivity
  call ActivityStarter1 StartActivity
```

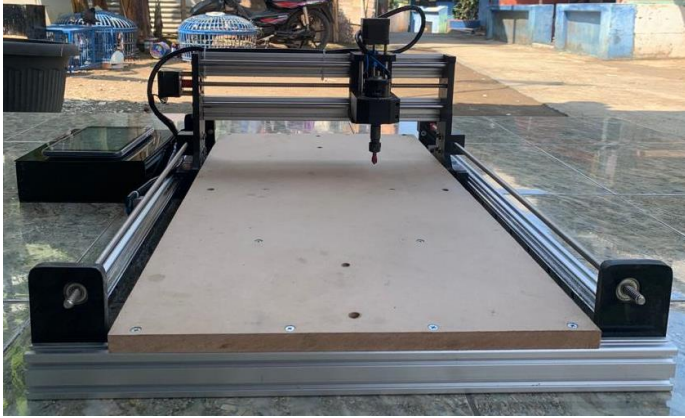
LAMPIRAN C
Hasil Perancangan Mesin CNC *Router 3 Axis*



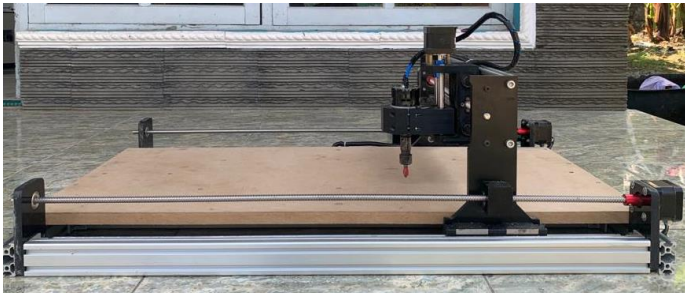
Gambar C. 1 Mesin CNC Tampak dari Belakang



Gambar C. 2 Mesin CNC Tampak dari Atas



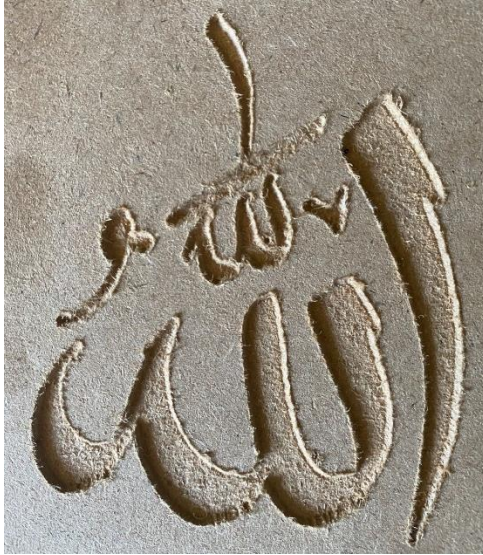
Gambar C. 3 Mesin CNC Tampak dari Depan



Gambar C. 4 Mesin CNC Tampak dari Samping

LAMPIRAN D

Hasil Pengukiran Mesin CNC Router 3 Axis



Gambar D. 1 Ukiran Lafal Allah



Gambar D. 2 Ukiran Huruf Hijaiyah Ba

BIODATA PENULIS



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Motto : Berhenti mengeluh, mulailah bergerak

Riwayat Pendidikan

SD Negeri 1 Semali	Tahun 2008 – 2014
SMP Negeri 2 Sempor	Tahun 2014 – 2017
SMK Negeri 1 Gombong	Tahun 2017 – 2020
Jurusan Teknik Kendaraan Ringan Otomotif	
Politeknik Negeri Cilacap	Tahun 2020 – 2023
Prodi D3 Teknik Elektronika	

Penulis telah melaksanakan tugas akhir pada tanggal 26 Juli 2023 sebagai salah satu persyaratan untuk memperoleh gelar Ahli Madya (A.Md).