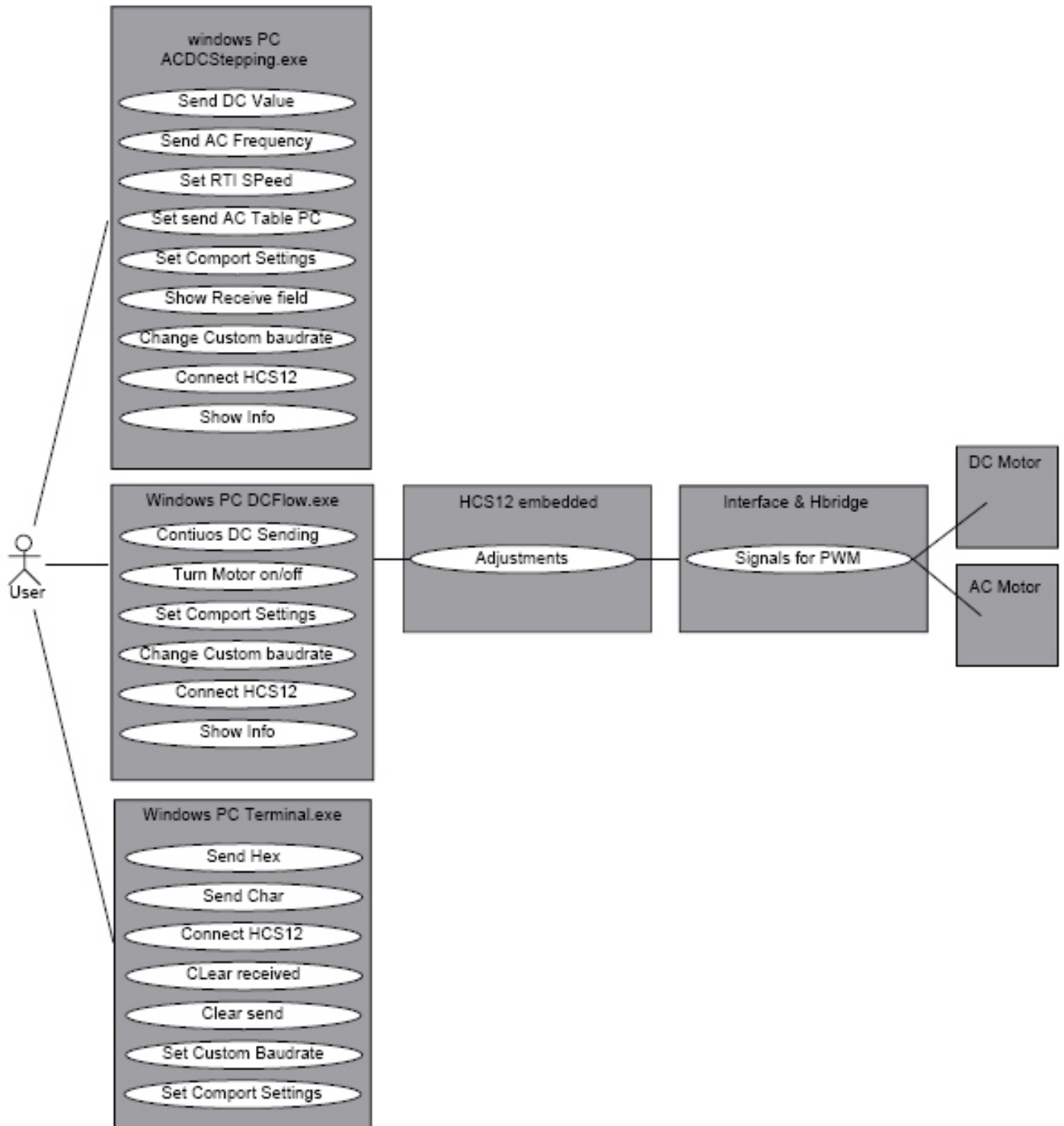


DCFlow.exe

Case Diagram

Universal Motor Driver

Case Diagram of C++ Builder 6 Software



DCFlow.exe

Screendumps

Universal Motor Driver

C++ Builder 6 programs accessibility

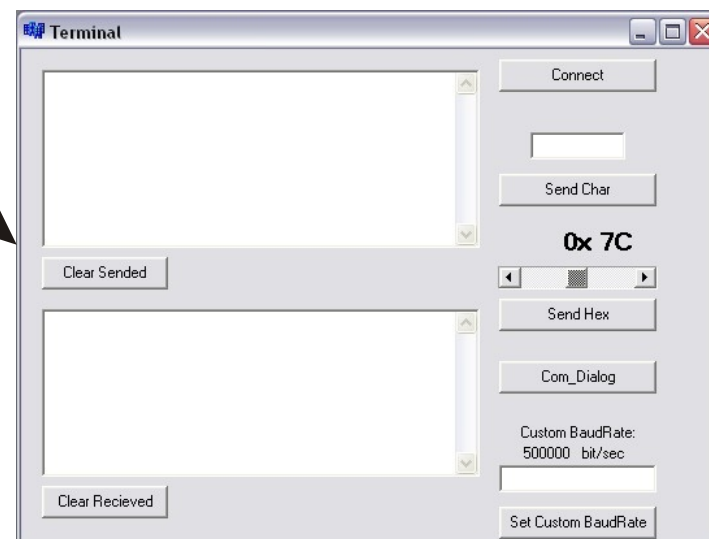
ACDCStepping.exe



DCFlow.exe



Terminal.exe



DCFlow.exe

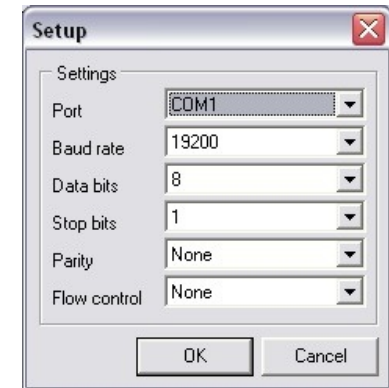
Unit1.cpp



Unit2.cpp



Unit3.cpp



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DCFlow.exe

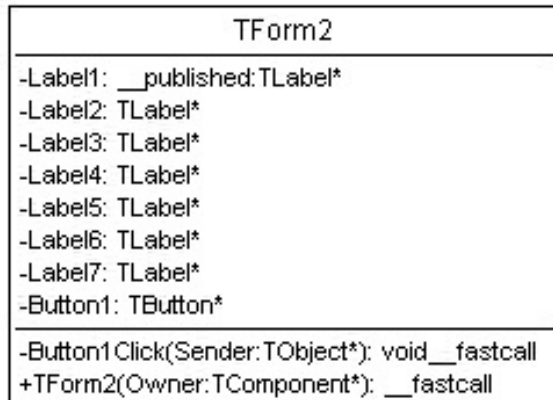
Classes Diagram

Universal Motor Driver

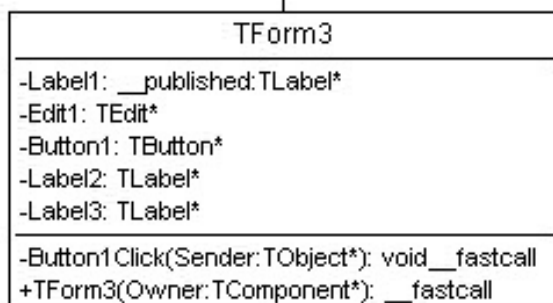
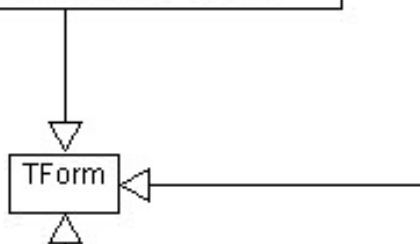
Classes Diagram of DCFlow.exe

DCFlow.exe

Unit2.cpp



Unit1.cpp



Unit3.cpp

DCFlow.exe

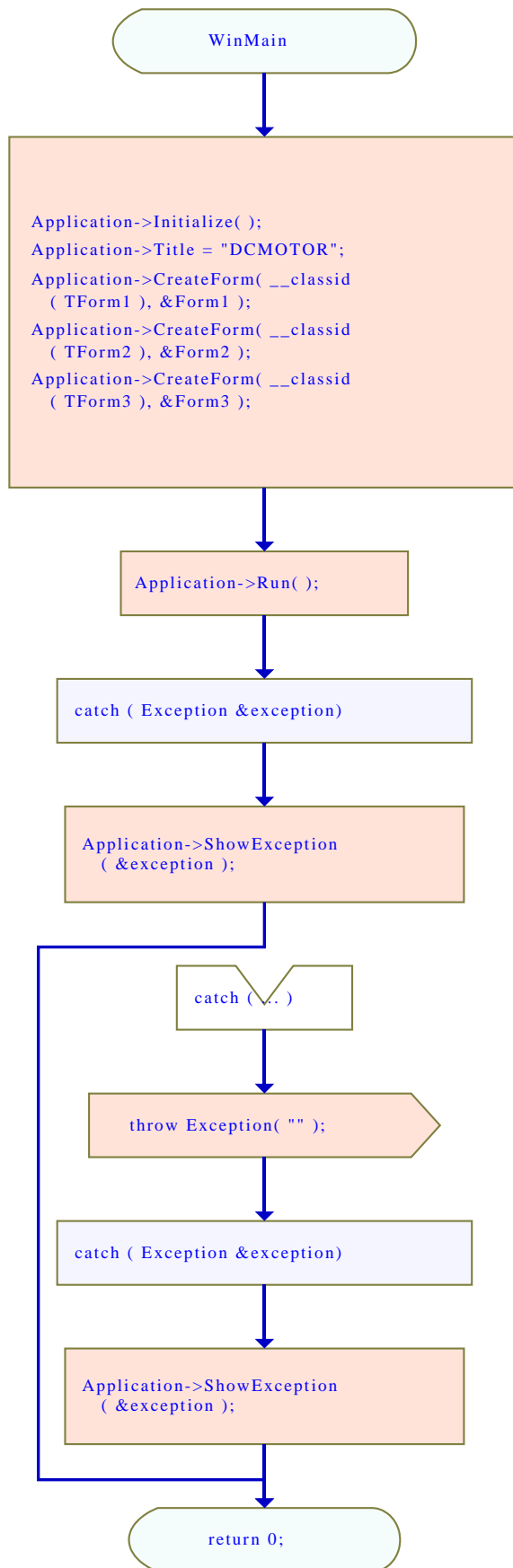
Flowdiagram
ACDCStepping.cpp

Universal Motor Driver

- **WinMain**

Flow Diagram of DCFlow.exe DCFlow.cpp function: WinMain

//-----



DCFlow.exe

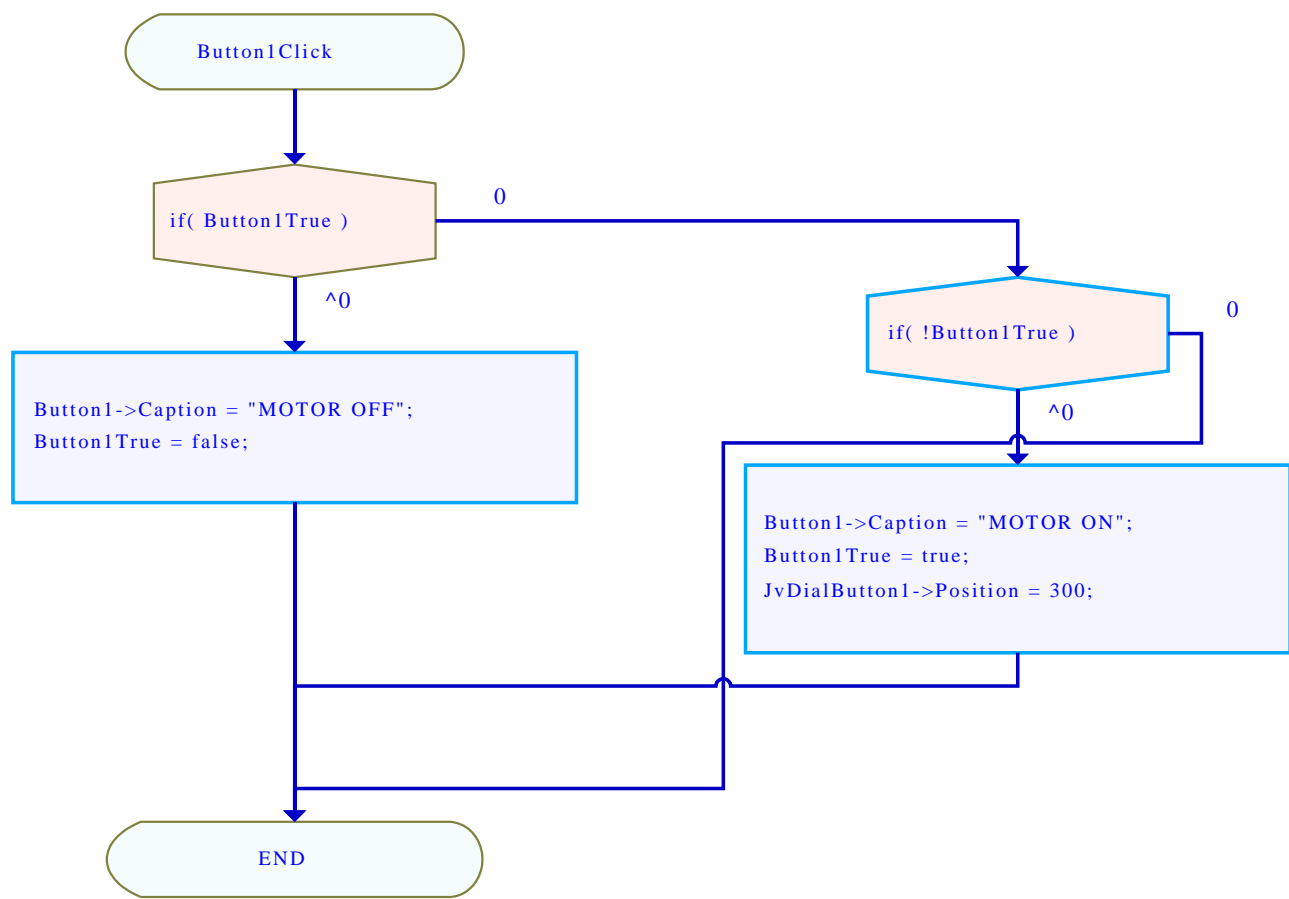
Flowdiagram
Unit1.cpp

Universal Motor Driver

- **Button1Click**
 - **ComPort2Click**
 - **Connect1Click**
 - **Costumbaudrate1Click**
 - **FormDestroy**
 - **JvDialButton1Change**
 - **Timer1Timer**
-

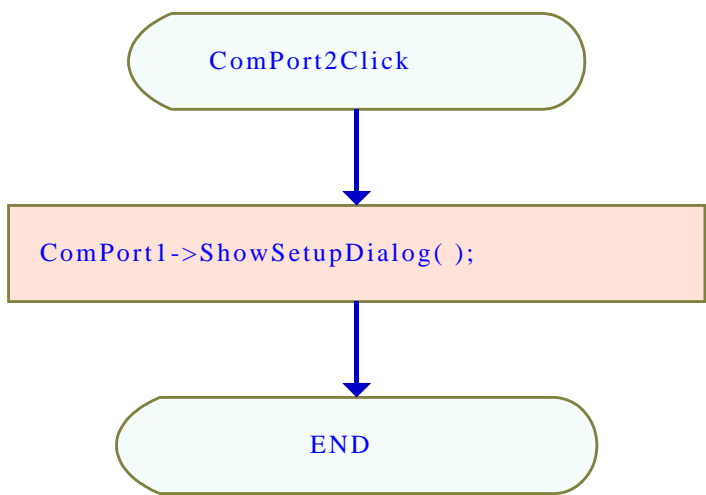
Flow Diagram of DCFlow.exe Unit1.cpp function: Button1Click

```
//-----  
// Short description:  
// When ever this button is clicked it sets the boolean Button1True either  
// to be true or false. It also changes the caption according  
// Pre: Button1True is true or false  
//  
// Post: If Button1True = false : Button1True -> true  
// If Button1True = true : Button1True -> false  
// Caption changes accordingly (Motor ON or Motor OFF)  
//-----
```



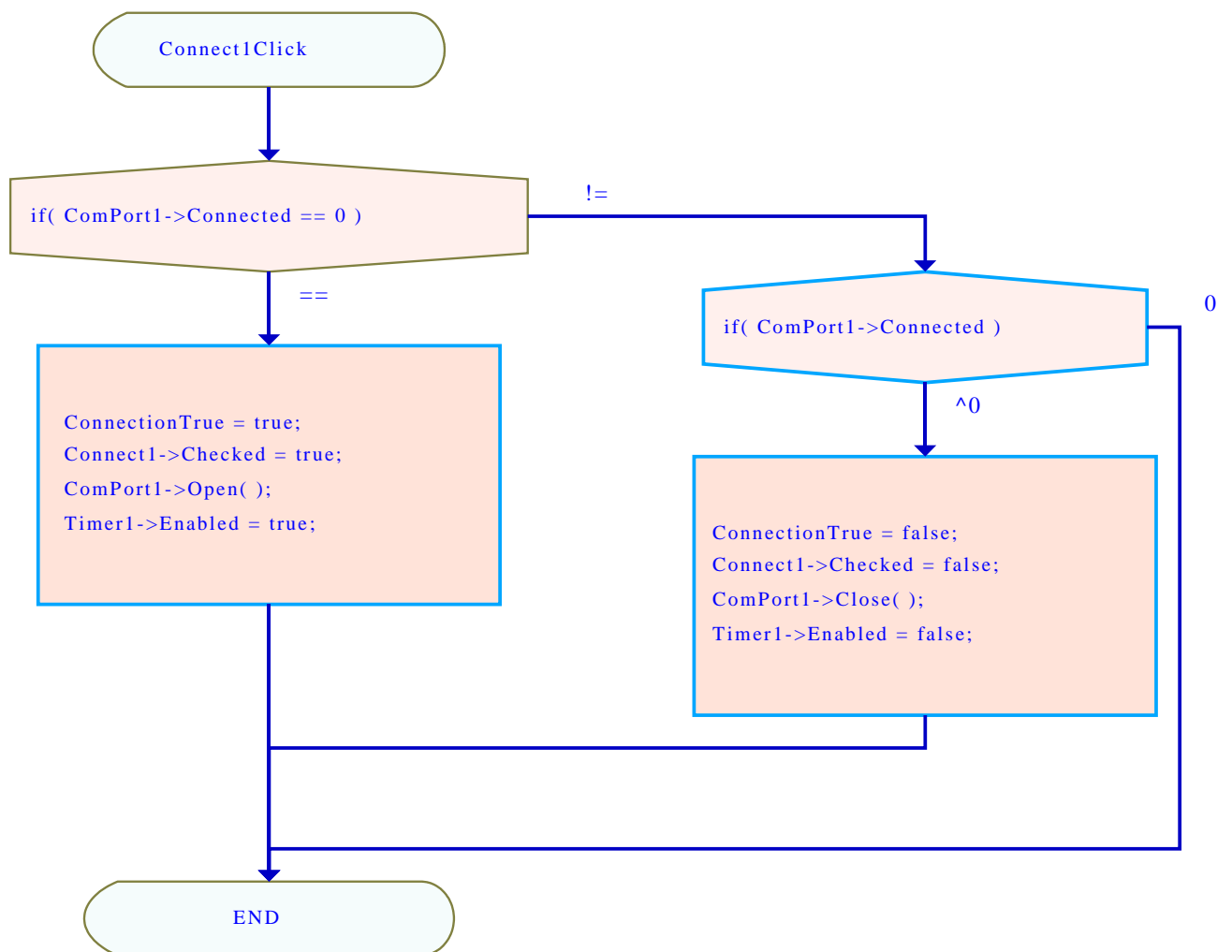
Flow Diagram of DCFlow.exe Unit1.cpp function: ComPort2Click

```
//-----  
// Short description:  
// Choosing this menu option, a setup dialog for the Comport VCL is shown.  
// In this dialog, you can change:  
// - Port number  
// - Baudrate  
// - Data bits  
// - Stop bits  
// - Parity  
// - Flow control  
// Pre: ComPort1  
// Post: setup dialog shown and changes effect ComPort1  
//-----
```



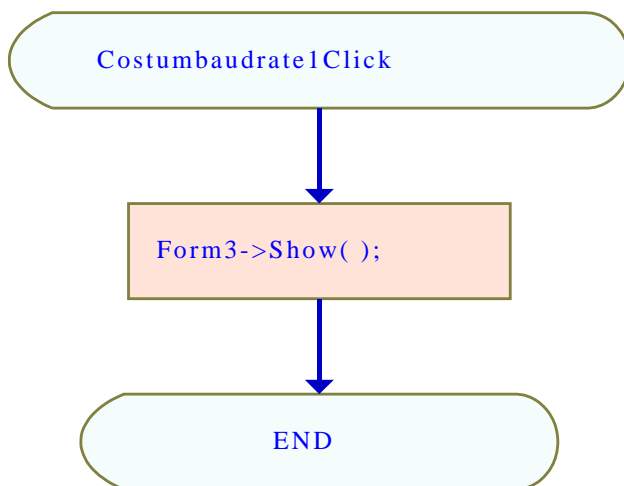
Flow Diagram of DCFlow.exe Unit1.cpp function: Connect1Click

```
//-----  
// Short description:  
// This menu option if checked opens a connection with the Comport VCL  
// Pre: If Connect1 = Checked Comport is open  
// If Connect1 = not Checked Comport is closed  
// Post: If Connect1 was Checked Comport is now closed  
// If Connect1 was not Checked Comport is now open  
//-----
```



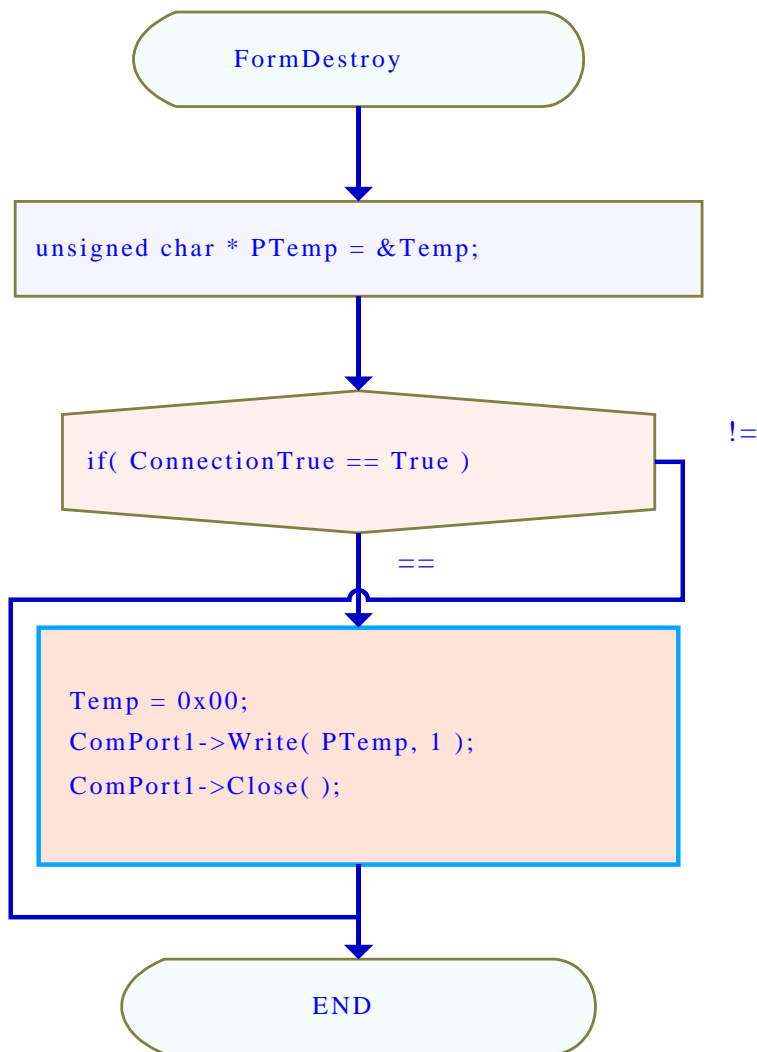
Flow Diagram of DCFlow.exe Unit1.cpp function: Costumbaudrate1Click

```
//-----  
// Short description:  
// Show set custom baud  
// Pre: DCFlow.exe is running  
// Post: On top of DCFlow.exe is the custom baud window shown  
//-----
```



Flow Diagram of DCFlow.exe Unit1.cpp function: FormDestroy

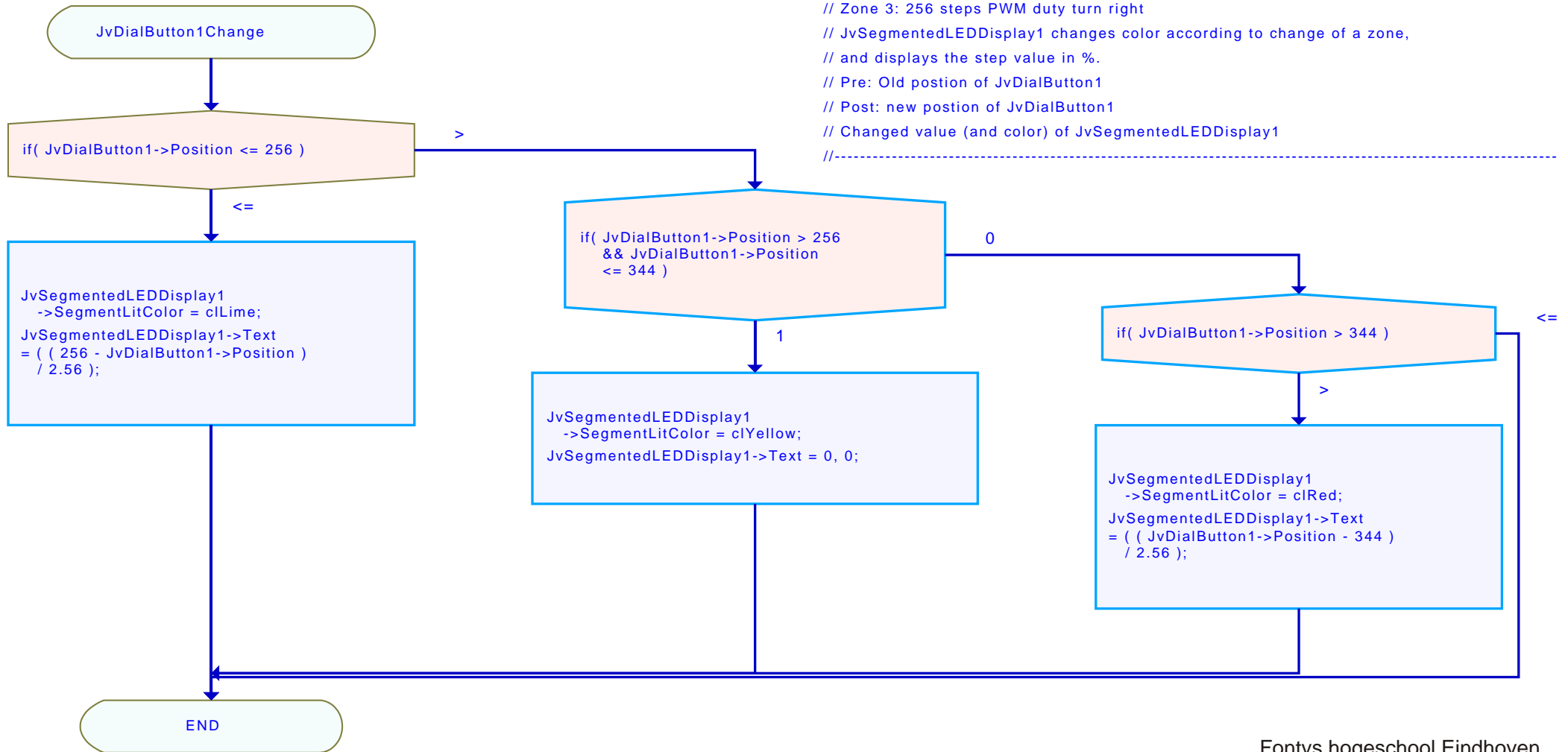
```
//-----  
// Short description:  
// This function is entered when the program is terminated.  
// Before termination it sends a stop character to the HCS12,  
// if connected.  
// Pre: Comport is connected or not  
// Post: If connected: 0x00 stop char is send and Comport1 is closed  
// If not connected: Comport1 is opened,  
// 0x00 stop char is send and Comport1 is closed.  
//-----
```



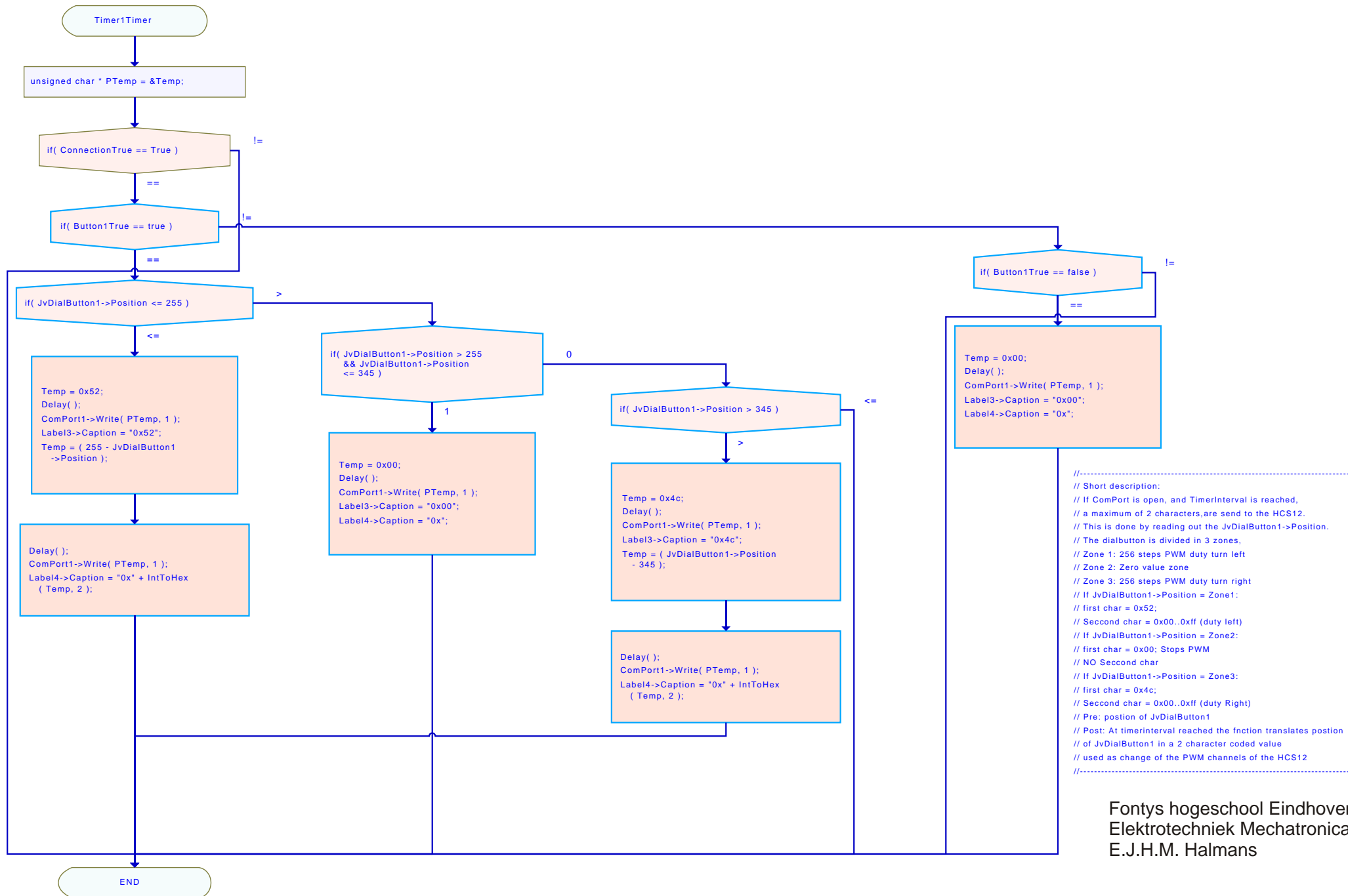
Flow Diagram of DCFlow.exe Unit1.cpp function: JvDialButton1Change

```

//-----
// Short description:
// If JvDialButton1Change changes, JvSegmentedLEDDisplay1
// changes according to the dialbutton
// The dialbutton is divided in 3 zones,
// Zone 1: 256 steps PWM duty turn left
// Zone 2: Zero value zone
// Zone 3: 256 steps PWM duty turn right
// JvSegmentedLEDDisplay1 changes color according to change of a zone,
// and displays the step value in %.
// Pre: Old position of JvDialButton1
// Post: new position of JvDialButton1
// Changed value (and color) of JvSegmentedLEDDisplay1
//-----
    
```



Flow Diagram of DCFlow.exe Unit1.cpp function: Timer1Timer



DCFlow.exe

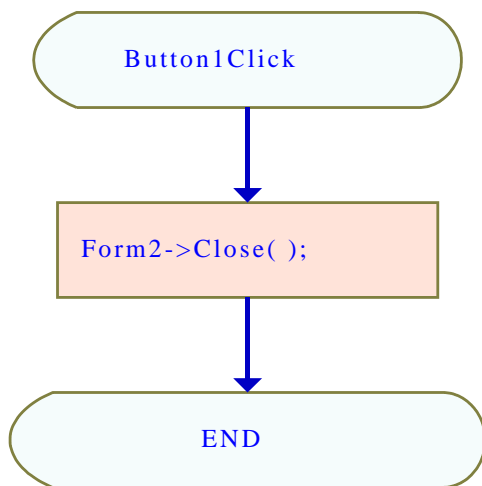
Flowdiagram
Unit2.cpp

Universal Motor Driver

- **Button1Click**

Flow Diagram of DCFlow.exe Unit2.cpp function: Button1Click

```
//-----  
// Short description:  
// Button to close about window  
// Pre: about window is shown  
// Post: about window is closed  
//-----
```



DCFlow.exe

Flowdiagram
Unit3.cpp

Universal Motor Driver

- **Button1Click**

Flow Diagram of DCFlow.exe Unit3.cpp function: Button1Click

```
//-----  
// Short description:  
// Button to set CPort VCL Custom baudrate  
// Pre: - CBaudRate->Text contains a value between 0..500.000  
// - CustomBaudRate  
// Post: The string value is translated in a integervalue and  
// is used to set a new CustomBaudRate  
// if buadrate is not within specs a non valid message is shown  
//-----
```

