**Приложение Б. Текст программы**

Министерство науки и высшего образования Российской Федерации

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МОСКОВСКИЙ ПРИБОРОСТРОИТЕЛЬНЫЙ ТЕХНИКУМ

Quadro Control

Текст программы

Руководитель разработки

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«\_\_\_\_\_» \_\_\_\_\_\_\_\_\_\_\_\_2021 г.

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## АННОТАЦИЯ

В данном программном документе приведен код программы распределения и контроля выполнения задач.

В разделе «Текст программы» указаны следующие пункты:

* Наименование программы;
* Область применения программы;
* Модули;
* Код программы.

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## ТЕКСТ ПРОГРАММЫ

### Наименование программы

Наименование – «Quadro control»

### Область применения программы

1. Программа предназначена к применению в профильных подразделениях АСУ ТП, на автоматизируемых объектах ООО «ИнноЦентр ВАО».

### Модули

Таблица 1- Модули

| Модуль | Описание | Количество строк кода | Размер (в Кбайтах) |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
| Main.cs | Основной модуль приложения | 280 | 11 |
| Main.Designer.cs | Графическое представление основного модуля приложения | 302 | 18 |

### Код программы

Main.cs

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.IO.Ports;

using System.Threading.Tasks;

using System.Windows.Forms;

using AForge.Video;

using AForge.Video.DirectShow;

using System.Globalization;

namespace QuadroControl

{

public partial class Main : Form

{

bool isConnected = false;

public int RemoteStatus = 0;

public float RemotePowerCurrent = 0;

public float RemotePowerVoltage = 0;

public int RemoteMainDirection = 0;

FilterInfoCollection filterInfoCollection;

VideoCaptureDevice videoCaptureDevice;

public Main()

{

InitializeComponent();

ConnectPortMain\_ComboBox.Items.Clear();

// Получаем список COM портов доступных в системе

string[] portnames = SerialPort.GetPortNames();

// Проверяем есть ли доступные

if (portnames.Length == 0)

{

MessageBox.Show("COM Port not found");

}

foreach (string portName in portnames)

{

//добавляем доступные COM порты в список

ConnectPortMain\_ComboBox.Items.Add(portName);

Console.WriteLine(portnames.Length);

if (portnames[0] != null)

{

ConnectPortMain\_ComboBox.SelectedItem = portnames[0];

}

}

filterInfoCollection = new FilterInfoCollection(FilterCategory.VideoInputDevice);

foreach (FilterInfo Device in filterInfoCollection)

comboBox1.Items.Add(Device.Name);

videoCaptureDevice = new VideoCaptureDevice();

}

private void ConnectBtnMain\_Btn\_Click(object sender, EventArgs e)

{

try

{

if (!isConnected)

{

isConnected = true;

if (ConnectPortMain\_ComboBox.SelectedIndex != -1)

{

string selectedPort = ConnectPortMain\_ComboBox.GetItemText(ConnectPortMain\_ComboBox.SelectedItem);

serialPort1.PortName = selectedPort;

serialPort1.BaudRate = 9600;

serialPort1.Open();

serialPort1.DataReceived += new SerialDataReceivedEventHandler(DataReceivedHandler);

}

if (comboBox1.SelectedIndex != -1)

{

videoCaptureDevice = new VideoCaptureDevice(filterInfoCollection[comboBox1.SelectedIndex].MonikerString);

videoCaptureDevice.NewFrame += FinalFrame\_NewFrame;

videoCaptureDevice.Start();

}

ConnectBtnMain\_Btn.Text = "Disconnect";

ConnectBtnMain\_Btn.BackColor = Color.Green;

Emergency\_Btn.Visible = true;

}

else

{

isConnected = false;

if (videoCaptureDevice.IsRunning == true) videoCaptureDevice.Stop();

serialPort1.Close();

ConnectBtnMain\_Btn.Text = "Connect";

ConnectBtnMain\_Btn.BackColor = Color.Red;

Emergency\_Btn.Visible = false;

}

}

catch { }

}

private void Main\_FormClosing(object sender, FormClosingEventArgs e)

{

// При закрытии программы, закрываем порт

if (serialPort1.IsOpen) serialPort1.Close();

}

//---------------------------------------------------Telemetry--------------------------------------------------

private void DataReceivedHandler(object sender, SerialDataReceivedEventArgs e)

{

SerialPort sp = (SerialPort)sender;

string indata = sp.ReadExisting();

//Console.WriteLine(indata);

if (indata.Length > 0)

{

try

{

RemoteStatus = Convert.ToInt32(indata.Split(' ')[0]);

RemotePowerCurrent = float.Parse(indata.Split(' ')[1], CultureInfo.InvariantCulture);

RemotePowerVoltage = float.Parse(indata.Split(' ')[2], CultureInfo.InvariantCulture);

RemoteMainDirection = Convert.ToInt32(indata.Split(' ')[3]);

TelemetryRawMain\_RichTextBox.Invoke(new Action(() => TelemetryRawMain\_RichTextBox.Text += indata + "\r"));

}

catch { }

}

switch (RemoteStatus)

{

case 0:

TelemetryStatus\_Label.Invoke(new Action(() => TelemetryStatus\_Label.Text = "Status: Idle"));

TelemetryStatus\_Label.Invoke(new Action(() => TelemetryStatus\_Label.ForeColor = Color.White));

break;

case 1:

TelemetryStatus\_Label.Invoke(new Action(() => TelemetryStatus\_Label.Text = "Status: Working"));

TelemetryStatus\_Label.Invoke(new Action(() => TelemetryStatus\_Label.ForeColor = Color.White));

DirectionForward\_Btn.Invoke(new Action(() => DirectionForward\_Btn.Enabled = true));

DirectionBackward\_Btn.Invoke(new Action(() => DirectionBackward\_Btn.Enabled = true));

DirectionLeft\_Btn.Invoke(new Action(() => DirectionLeft\_Btn.Enabled = true));

DirectionRight\_Btn.Invoke(new Action(() => DirectionRight\_Btn.Enabled = true));

break;

case 2:

TelemetryStatus\_Label.Invoke(new Action(() => TelemetryStatus\_Label.Text = "Status: Emergency"));

TelemetryStatus\_Label.Invoke(new Action(() => TelemetryStatus\_Label.ForeColor = Color.Red));

break;

}

switch (RemoteMainDirection)

{

case 0:

TelemetryDirection\_Label.Invoke(new Action(() => TelemetryDirection\_Label.Text = "Direction: Backward"));

break;

case 1:

TelemetryDirection\_Label.Invoke(new Action(() => TelemetryDirection\_Label.Text = "Direction: Forward"));

break;

}

//TelemetryCurrent\_Label.Invoke(new Action(() => TelemetryCurrent\_Label.Text = "Current: " + RemotePowerCurrent.ToString("0.0")));

//TelemetryVoltage\_Label.Invoke(new Action(() => TelemetryVoltage\_Label.Text = "Voltage: " + RemotePowerVoltage.ToString("0.0")));

}

private void FinalFrame\_NewFrame(object sender, NewFrameEventArgs eventArgs)

{

pictureBox1.Image = (Bitmap)eventArgs.Frame.Clone();

}

//---------------------------------------------------Telemetry--------------------------------------------------

//---------------------------------------------------Send command-----------------------------------------------

private void DirectionLeft\_Btn\_MouseDown(object sender, MouseEventArgs e)

{

SendData('L');

}

private void DirectionRight\_Btn\_MouseDown(object sender, MouseEventArgs e)

{

SendData('R');

}

private void DirectionRight\_Btn\_MouseUp(object sender, MouseEventArgs e)

{

SendData('D');

}

private void DirectionForward\_Btn\_MouseDown(object sender, MouseEventArgs e)

{

SendData('F');

}

private void DirectionBackward\_Btn\_MouseDown(object sender, MouseEventArgs e)

{

SendData('B');

}

private void DirectionForward\_Btn\_MouseUp(object sender, MouseEventArgs e)

{

SendData('S');

}

private void Emergency\_Btn\_Click(object sender, EventArgs e)

{

SendData('E');

DirectionForward\_Btn.Enabled = false;

DirectionBackward\_Btn.Enabled = false;

DirectionLeft\_Btn.Enabled = false;

DirectionRight\_Btn.Enabled = false;

}

bool isPressedKey = false;

private void Main\_KeyUp(object sender, KeyEventArgs e)

{

if (e.KeyData == Keys.W || e.KeyData == Keys.S) SendData('S');

if (e.KeyData == Keys.A || e.KeyData == Keys.D) SendData('D');

isPressedKey = false;

}

private void Main\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyData == Keys.W && (!isPressedKey))

{

SendData('F');

isPressedKey = true;

}

if (e.KeyData == Keys.A && (!isPressedKey))

{

SendData('L');

isPressedKey = true;

}

if (e.KeyData == Keys.S && (!isPressedKey))

{

SendData('B');

isPressedKey = true;

}

if (e.KeyData == Keys.D && (!isPressedKey))

{

SendData('R');

isPressedKey = true;

}

if (e.KeyData == Keys.Escape)

{

SendData('E');

isPressedKey = true;

DirectionForward\_Btn.Enabled = false;

DirectionBackward\_Btn.Enabled = false;

DirectionLeft\_Btn.Enabled = false;

DirectionRight\_Btn.Enabled = false;

SendData('E');

}

}

//---------------------------------------------------Send command-----------------------------------------------

private void SendData(char data)

{

try

{

serialPort1.Write(data + "\n");

}

catch { }

}

private void SendRawCommand\_Btn\_Click(object sender, EventArgs e)

{

serialPort1.Write(RawCommand\_TextBox.Text + "\n");

}

private void RawCommand\_TextBox\_KeyPress(object sender, KeyPressEventArgs e)

{

serialPort1.Write(RawCommand\_TextBox.Text + "\n");

}

private void TelemetryRawMain\_RichTextBox\_TextChanged(object sender, EventArgs e)

{

// set the current caret position to the end

TelemetryRawMain\_RichTextBox.SelectionStart = TelemetryRawMain\_RichTextBox.Text.Length;

// scroll it automatically

TelemetryRawMain\_RichTextBox.ScrollToCaret();

}

}

}

Main.Designer.cs

namespace QuadroControl

{

partial class Main

{

/// <summary>

/// Обязательная переменная конструктора.

/// </summary>

private System.ComponentModel.IContainer components = null;

/// <summary>

/// Освободить все используемые ресурсы.

/// </summary>

/// <param name="disposing">истинно, если управляемый ресурс должен быть удален; иначе ложно.</param>

protected override void Dispose(bool disposing)

{

if (disposing && (components != null))

{

components.Dispose();

}

base.Dispose(disposing);

}

#region Код, автоматически созданный конструктором форм Windows

/// <summary>

/// Требуемый метод для поддержки конструктора — не изменяйте

/// содержимое этого метода с помощью редактора кода.

/// </summary>

private void InitializeComponent()

{

this.components = new System.ComponentModel.Container();

this.ConnectBtnMain\_Btn = new System.Windows.Forms.Button();

this.ConnectPortMain\_ComboBox = new System.Windows.Forms.ComboBox();

this.serialPort1 = new System.IO.Ports.SerialPort(this.components);

this.DirectionForward\_Btn = new System.Windows.Forms.Button();

this.DirectionBackward\_Btn = new System.Windows.Forms.Button();

this.DirectionLeft\_Btn = new System.Windows.Forms.Button();

this.DirectionRight\_Btn = new System.Windows.Forms.Button();

this.pictureBox1 = new System.Windows.Forms.PictureBox();

this.comboBox1 = new System.Windows.Forms.ComboBox();

this.tabControl1 = new System.Windows.Forms.TabControl();

this.tabPage1 = new System.Windows.Forms.TabPage();

this.TelemetryDirection\_Label = new System.Windows.Forms.Label();

this.tabPage2 = new System.Windows.Forms.TabPage();

this.SendRawCommand\_Btn = new System.Windows.Forms.Button();

this.RawCommand\_TextBox = new System.Windows.Forms.TextBox();

this.TelemetryRawMain\_RichTextBox = new System.Windows.Forms.RichTextBox();

this.TelemetryStatus\_Label = new System.Windows.Forms.Label();

this.Emergency\_Btn = new System.Windows.Forms.Button();

((System.ComponentModel.ISupportInitialize)(this.pictureBox1)).BeginInit();

this.tabControl1.SuspendLayout();

this.tabPage1.SuspendLayout();

this.tabPage2.SuspendLayout();

this.SuspendLayout();

//

// ConnectBtnMain\_Btn

//

this.ConnectBtnMain\_Btn.BackColor = System.Drawing.Color.Red;

this.ConnectBtnMain\_Btn.Font = new System.Drawing.Font("Arial Rounded MT Bold", 13.8F, System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)(0)));

this.ConnectBtnMain\_Btn.ForeColor = System.Drawing.Color.Snow;

this.ConnectBtnMain\_Btn.Location = new System.Drawing.Point(695, 12);

this.ConnectBtnMain\_Btn.Name = "ConnectBtnMain\_Btn";

this.ConnectBtnMain\_Btn.Size = new System.Drawing.Size(180, 43);

this.ConnectBtnMain\_Btn.TabIndex = 0;

this.ConnectBtnMain\_Btn.Text = "Connect";

this.ConnectBtnMain\_Btn.UseVisualStyleBackColor = false;

this.ConnectBtnMain\_Btn.Click += new System.EventHandler(this.ConnectBtnMain\_Btn\_Click);

//

// ConnectPortMain\_ComboBox

//

this.ConnectPortMain\_ComboBox.DropDownHeight = 110;

this.ConnectPortMain\_ComboBox.DropDownStyle = System.Windows.Forms.ComboBoxStyle.DropDownList;

this.ConnectPortMain\_ComboBox.Font = new System.Drawing.Font("Microsoft Sans Serif", 15F);

this.ConnectPortMain\_ComboBox.FormattingEnabled = true;

this.ConnectPortMain\_ComboBox.IntegralHeight = false;

this.ConnectPortMain\_ComboBox.Location = new System.Drawing.Point(257, 18);

this.ConnectPortMain\_ComboBox.Name = "ConnectPortMain\_ComboBox";

this.ConnectPortMain\_ComboBox.Size = new System.Drawing.Size(121, 37);

this.ConnectPortMain\_ComboBox.TabIndex = 1;

//

// DirectionForward\_Btn

//

this.DirectionForward\_Btn.Font = new System.Drawing.Font("Microsoft Sans Serif", 15F);

this.DirectionForward\_Btn.Location = new System.Drawing.Point(198, 878);

this.DirectionForward\_Btn.Name = "DirectionForward\_Btn";

this.DirectionForward\_Btn.Size = new System.Drawing.Size(100, 50);

this.DirectionForward\_Btn.TabIndex = 2;

this.DirectionForward\_Btn.Text = "↑";

this.DirectionForward\_Btn.UseVisualStyleBackColor = true;

this.DirectionForward\_Btn.MouseDown += new System.Windows.Forms.MouseEventHandler(this.DirectionForward\_Btn\_MouseDown);

this.DirectionForward\_Btn.MouseUp += new System.Windows.Forms.MouseEventHandler(this.DirectionForward\_Btn\_MouseUp);

//

// DirectionBackward\_Btn

//

this.DirectionBackward\_Btn.Font = new System.Drawing.Font("Microsoft Sans Serif", 15F);

this.DirectionBackward\_Btn.Location = new System.Drawing.Point(198, 955);

this.DirectionBackward\_Btn.Name = "DirectionBackward\_Btn";

this.DirectionBackward\_Btn.Size = new System.Drawing.Size(100, 50);

this.DirectionBackward\_Btn.TabIndex = 3;

this.DirectionBackward\_Btn.Text = "↓";

this.DirectionBackward\_Btn.UseVisualStyleBackColor = true;

this.DirectionBackward\_Btn.MouseDown += new System.Windows.Forms.MouseEventHandler(this.DirectionBackward\_Btn\_MouseDown);

this.DirectionBackward\_Btn.MouseUp += new System.Windows.Forms.MouseEventHandler(this.DirectionForward\_Btn\_MouseUp);

//

// DirectionLeft\_Btn

//

this.DirectionLeft\_Btn.Font = new System.Drawing.Font("Microsoft Sans Serif", 15F);

this.DirectionLeft\_Btn.Location = new System.Drawing.Point(75, 919);

this.DirectionLeft\_Btn.Name = "DirectionLeft\_Btn";

this.DirectionLeft\_Btn.Size = new System.Drawing.Size(100, 50);

this.DirectionLeft\_Btn.TabIndex = 5;

this.DirectionLeft\_Btn.Text = "←";

this.DirectionLeft\_Btn.UseVisualStyleBackColor = true;

this.DirectionLeft\_Btn.MouseDown += new System.Windows.Forms.MouseEventHandler(this.DirectionLeft\_Btn\_MouseDown);

this.DirectionLeft\_Btn.MouseUp += new System.Windows.Forms.MouseEventHandler(this.DirectionRight\_Btn\_MouseUp);

//

// DirectionRight\_Btn

//

this.DirectionRight\_Btn.Font = new System.Drawing.Font("Microsoft Sans Serif", 15F);

this.DirectionRight\_Btn.Location = new System.Drawing.Point(326, 919);

this.DirectionRight\_Btn.Name = "DirectionRight\_Btn";

this.DirectionRight\_Btn.Size = new System.Drawing.Size(100, 50);

this.DirectionRight\_Btn.TabIndex = 4;

this.DirectionRight\_Btn.Text = "→";

this.DirectionRight\_Btn.UseVisualStyleBackColor = true;

this.DirectionRight\_Btn.MouseDown += new System.Windows.Forms.MouseEventHandler(this.DirectionRight\_Btn\_MouseDown);

this.DirectionRight\_Btn.MouseUp += new System.Windows.Forms.MouseEventHandler(this.DirectionRight\_Btn\_MouseUp);

//

// pictureBox1

//

this.pictureBox1.Location = new System.Drawing.Point(528, 144);

this.pictureBox1.Name = "pictureBox1";

this.pictureBox1.Size = new System.Drawing.Size(665, 562);

this.pictureBox1.TabIndex = 6;

this.pictureBox1.TabStop = false;

//

// comboBox1

//

this.comboBox1.DropDownStyle = System.Windows.Forms.ComboBoxStyle.DropDownList;

this.comboBox1.Font = new System.Drawing.Font("Microsoft Sans Serif", 15F);

this.comboBox1.FormattingEnabled = true;

this.comboBox1.Location = new System.Drawing.Point(435, 18);

this.comboBox1.Name = "comboBox1";

this.comboBox1.Size = new System.Drawing.Size(243, 37);

this.comboBox1.TabIndex = 7;

//

// tabControl1

//

this.tabControl1.Controls.Add(this.tabPage1);

this.tabControl1.Controls.Add(this.tabPage2);

this.tabControl1.Font = new System.Drawing.Font("Microsoft Sans Serif", 12F);

this.tabControl1.Location = new System.Drawing.Point(1479, 42);

this.tabControl1.Name = "tabControl1";

this.tabControl1.SelectedIndex = 0;

this.tabControl1.Size = new System.Drawing.Size(411, 900);

this.tabControl1.TabIndex = 8;

//

// tabPage1

//

this.tabPage1.Controls.Add(this.TelemetryDirection\_Label);

this.tabPage1.Location = new System.Drawing.Point(4, 34);

this.tabPage1.Name = "tabPage1";

this.tabPage1.Padding = new System.Windows.Forms.Padding(3);

this.tabPage1.Size = new System.Drawing.Size(403, 862);

this.tabPage1.TabIndex = 0;

this.tabPage1.Text = "Telemetry";

this.tabPage1.UseVisualStyleBackColor = true;

//

// TelemetryDirection\_Label

//

this.TelemetryDirection\_Label.AutoSize = true;

this.TelemetryDirection\_Label.Font = new System.Drawing.Font("Microsoft Sans Serif", 12F);

this.TelemetryDirection\_Label.Location = new System.Drawing.Point(6, 16);

this.TelemetryDirection\_Label.Name = "TelemetryDirection\_Label";

this.TelemetryDirection\_Label.Size = new System.Drawing.Size(94, 25);

this.TelemetryDirection\_Label.TabIndex = 1;

this.TelemetryDirection\_Label.Text = "Direction:";

//

// tabPage2

//

this.tabPage2.Controls.Add(this.SendRawCommand\_Btn);

this.tabPage2.Controls.Add(this.RawCommand\_TextBox);

this.tabPage2.Controls.Add(this.TelemetryRawMain\_RichTextBox);

this.tabPage2.Location = new System.Drawing.Point(4, 34);

this.tabPage2.Name = "tabPage2";

this.tabPage2.Padding = new System.Windows.Forms.Padding(3);

this.tabPage2.Size = new System.Drawing.Size(403, 862);

this.tabPage2.TabIndex = 1;

this.tabPage2.Text = "Raw data";

this.tabPage2.UseVisualStyleBackColor = true;

//

// SendRawCommand\_Btn

//

this.SendRawCommand\_Btn.Location = new System.Drawing.Point(328, 825);

this.SendRawCommand\_Btn.Name = "SendRawCommand\_Btn";

this.SendRawCommand\_Btn.Size = new System.Drawing.Size(69, 31);

this.SendRawCommand\_Btn.TabIndex = 2;

this.SendRawCommand\_Btn.Text = "Send";

this.SendRawCommand\_Btn.UseVisualStyleBackColor = true;

this.SendRawCommand\_Btn.Click += new System.EventHandler(this.SendRawCommand\_Btn\_Click);

//

// RawCommand\_TextBox

//

this.RawCommand\_TextBox.Location = new System.Drawing.Point(6, 826);

this.RawCommand\_TextBox.Name = "RawCommand\_TextBox";

this.RawCommand\_TextBox.Size = new System.Drawing.Size(320, 30);

this.RawCommand\_TextBox.TabIndex = 1;

this.RawCommand\_TextBox.KeyPress += new System.Windows.Forms.KeyPressEventHandler(this.RawCommand\_TextBox\_KeyPress);

//

// TelemetryRawMain\_RichTextBox

//

this.TelemetryRawMain\_RichTextBox.Location = new System.Drawing.Point(3, 6);

this.TelemetryRawMain\_RichTextBox.Name = "TelemetryRawMain\_RichTextBox";

this.TelemetryRawMain\_RichTextBox.Size = new System.Drawing.Size(394, 803);

this.TelemetryRawMain\_RichTextBox.TabIndex = 0;

this.TelemetryRawMain\_RichTextBox.Text = "";

this.TelemetryRawMain\_RichTextBox.TextChanged += new System.EventHandler(this.TelemetryRawMain\_RichTextBox\_TextChanged);

//

// TelemetryStatus\_Label

//

this.TelemetryStatus\_Label.AutoSize = true;

this.TelemetryStatus\_Label.Font = new System.Drawing.Font("Microsoft Sans Serif", 16F);

this.TelemetryStatus\_Label.ForeColor = System.Drawing.Color.White;

this.TelemetryStatus\_Label.Location = new System.Drawing.Point(1477, 5);

this.TelemetryStatus\_Label.Name = "TelemetryStatus\_Label";

this.TelemetryStatus\_Label.Size = new System.Drawing.Size(151, 31);

this.TelemetryStatus\_Label.TabIndex = 0;

this.TelemetryStatus\_Label.Text = "Status: Idle";

//

// Emergency\_Btn

//

this.Emergency\_Btn.BackColor = System.Drawing.SystemColors.MenuHighlight;

this.Emergency\_Btn.Font = new System.Drawing.Font("Microsoft Sans Serif", 14F, System.Drawing.FontStyle.Bold);

this.Emergency\_Btn.ForeColor = System.Drawing.SystemColors.Control;

this.Emergency\_Btn.Location = new System.Drawing.Point(23, 8);

this.Emergency\_Btn.Name = "Emergency\_Btn";

this.Emergency\_Btn.Size = new System.Drawing.Size(200, 47);

this.Emergency\_Btn.TabIndex = 9;

this.Emergency\_Btn.Text = "Emergency";

this.Emergency\_Btn.UseVisualStyleBackColor = false;

this.Emergency\_Btn.Visible = false;

this.Emergency\_Btn.Click += new System.EventHandler(this.Emergency\_Btn\_Click);

//

// Main

//

this.AutoScaleDimensions = new System.Drawing.SizeF(8F, 16F);

this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

this.BackColor = System.Drawing.SystemColors.ControlDarkDark;

this.ClientSize = new System.Drawing.Size(1902, 1033);

this.Controls.Add(this.Emergency\_Btn);

this.Controls.Add(this.tabControl1);

this.Controls.Add(this.TelemetryStatus\_Label);

this.Controls.Add(this.comboBox1);

this.Controls.Add(this.pictureBox1);

this.Controls.Add(this.DirectionLeft\_Btn);

this.Controls.Add(this.DirectionRight\_Btn);

this.Controls.Add(this.DirectionBackward\_Btn);

this.Controls.Add(this.DirectionForward\_Btn);

this.Controls.Add(this.ConnectPortMain\_ComboBox);

this.Controls.Add(this.ConnectBtnMain\_Btn);

this.ForeColor = System.Drawing.SystemColors.ControlText;

this.FormBorderStyle = System.Windows.Forms.FormBorderStyle.FixedSingle;

this.KeyPreview = true;

this.Name = "Main";

this.Text = "QuadroControl";

this.FormClosing += new System.Windows.Forms.FormClosingEventHandler(this.Main\_FormClosing);

this.KeyDown += new System.Windows.Forms.KeyEventHandler(this.Main\_KeyDown);

this.KeyUp += new System.Windows.Forms.KeyEventHandler(this.Main\_KeyUp);

((System.ComponentModel.ISupportInitialize)(this.pictureBox1)).EndInit();

this.tabControl1.ResumeLayout(false);

this.tabPage1.ResumeLayout(false);

this.tabPage1.PerformLayout();

this.tabPage2.ResumeLayout(false);

this.tabPage2.PerformLayout();

this.ResumeLayout(false);

this.PerformLayout();

}

#endregion

private System.Windows.Forms.Button ConnectBtnMain\_Btn;

private System.Windows.Forms.ComboBox ConnectPortMain\_ComboBox;

private System.IO.Ports.SerialPort serialPort1;

private System.Windows.Forms.Button DirectionForward\_Btn;

private System.Windows.Forms.Button DirectionBackward\_Btn;

private System.Windows.Forms.Button DirectionLeft\_Btn;

private System.Windows.Forms.Button DirectionRight\_Btn;

private System.Windows.Forms.PictureBox pictureBox1;

private System.Windows.Forms.ComboBox comboBox1;

private System.Windows.Forms.TabControl tabControl1;

private System.Windows.Forms.TabPage tabPage1;

private System.Windows.Forms.TabPage tabPage2;

private System.Windows.Forms.RichTextBox TelemetryRawMain\_RichTextBox;

private System.Windows.Forms.Button SendRawCommand\_Btn;

private System.Windows.Forms.TextBox RawCommand\_TextBox;

private System.Windows.Forms.Label TelemetryDirection\_Label;

private System.Windows.Forms.Label TelemetryStatus\_Label;

private System.Windows.Forms.Button Emergency\_Btn;

}

}