**Diego**

**Senior .Net Developer**

**Professional summary:**

* Overall **13+ years** of professional experience developing software involved in all stages of **Software Development Life Cycle**, involving studying the user requirements, analyzing, coding, implementation, debugging, deployment, support and version control.
* Experience of designing/developing/deployment software applications with **Microsoft .NET framework 1.0/1.1/1.2/3.0/3.5/4.6/4.7** using **C#, Visual C# .NET, VBA (Visual Basic for Applications), WPF (Windows presentation foundation), Windows forms** and **ADO.Net**
* 13+ years of experience in developing specialized **electrical/mechanical software** for manufacture products.
* 10+ years of experience developing specialized software for engineering in **CAD Software** (computer-aided design) with **APIs (Application programming interfaces)** in **AutoCad 2006/2008/2012/2016, Solid Edge 2012, Solid Works 2012/2016/2018, Autodesk Inventor 2018, NX 9.0, DraftSigth.**
* Strong experience to automate design process for manufacture products **(Design sheets, bill of Materials & layouts to manufacture).**
* Skills and Sound knowledge of OOPS (**Object Oriented Programming Structure)** and **Agile** methodology as **SCRUM** with **Devops/JIRA** platform.
* Experience with Web technologies to developing/publishing like **Web Services (wsdl), IIS 5.0, 6.0, SOAP REST (XML/Json).**
* Proficiency in **Visual Studio 2010/2012/2015/2019.**
* Experience with **Data Accessing** including using **Data Adapter**, **Data Reader** and **Dataset/DataTable** in **ADO.NET** and **LINQ** (Language Integrated Query) Providers for data manipulation.
* Sound knowledge **N-tier layered** architecture. (Service, Business, Data, User Interfaces), and **DESIGN PATTERNS** like **Singleton**, **Factory** and **MVVM.**
* Experience in version control as **GIT** on Microsoft Visual studio 2012/2015/2017/2019.
* Experience in manipulation **Databases** like **Oracle/SQL/MYSQL** with queries or coding (**CRUD operations**).
* Experience to reusable code to create **customized client frameworks** to increase developers productivity and optimizing code.
* Experience with external application such as **Teigha (AutoCad dwg files), Epplus (Excel xlsx/xlsm files), ITextSharp (PDF files), QR Code.**
* Experience in **ERP** like **SAP** working with **RFCs** exposed by ABAP developer (Consuming data, creating document number, Check In/out, massive information migration FROM/TO).

**Technical Skills:**

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| --- | --- |
| **Programming Languages** | C#, VB.Net, VB 6.0, VBA, T-SQL, CSS, HTML, ASP .NET |
| **Web Technologies** | ASP. Net A / ASP .NET CORE / ADO.NET / MVC |
| **Microsoft Technologies** | MS Visual Studio 2012/2015/2017/2019, .NET Framework 1.0/2.0/3.0/3.5/4.6/4.7, Winforms, WPF, LINQ, ClickOnce deployment |
| **CAD applications** | AutoCad 20012/2016, SolidEdge 2012/ SolidWorks 2014/2016/2018 / Inventor 2016/ NX 9.0 |
| **Apis/SDKs** | Teigha/Epplus/ItextSharp/QR code / NewtonSoft Json |
| **Database** | SQL Server 2016, Oracle 11g/12g/19g, Access 2012/2016 |
| **Scripting Languages** | Java script, Jquery |
| **Development/Design Tools** | MS Visual Studio 2012/2015/2017/2019 Database .Net / SQL developer |
| **SourceCode Control** | GIT, SVN |
| **Web Servers** | Internet Information Services (IIS) 6.0/7.0 |
| **Operating System** | Windows 2000/NT/Vista/XP/7/8/10 |
| **Content Management Software** | Sharepoint |
| **Environments** | WHM for CentOS, ASP.NET & ASP .NET CORE |
| **Management Tools** | Devops, JIRA |

**Courses:**

* Programming C# Microsoft
* C# Course as teacher in WEG Brasil (Introduction to C# 80 hours)
* Xamarin Latin-American Microsoft (Basic)
* Xamarin Latin-American Microsoft (Intermediate)
* Mobile application development
* Xamarin Campus MVP Mobile applications
* AutoCad 2006
* SolidWorks 2016 XpertCAD

**Certifications:**

* 10266 - Programming in C# with Microsoft Visual Studio 2010
* 10262A-Developing Windows Applications with Microsoft Visual Studio 2010
* 10265A-Developing Data Access Solutions with Microsoft Visual Studio 2010

**Education:**

Bachelor of Computer Systems Universidad Autónoma del Estado de Hidalgo, Pachuca de Soto, 2007

**Professional Experience:**

**Voltran, Dallas, TX Jul, 2017 - Current**

**Senior .Net Developer**

Project Description:Engineering Automation Process Project (Various)

**Responsibilities:**

* Responsible for the correct operation of all engineering programs developed by the RD&I (**Research, development and Innovation**) area in WEG Transformer and Distribution (WTD) in Mexico, Brazil, South Africa and Colombia, as well as the development and implementation of new automation tools or programs for design transformer automation (oil and dry).
* Define and develop **N-Tier Layers** (**Service, Data, Business, User Interface**) for all system modules in the solution.
* Responsible for Implementation Agile methodology **Scrum** using **Devops** and **JIRA.**
* Responsible for the developer´s team (2 Mexico + 4 Brazil).
* Responsible for standard information stored in SAP.
* Managing Projects in Brazil and Mexico.
* **Developed Applications (C# + WPF + Webservices):**
  + **Project PTD/WTA** – Automation design process of South AfricaTransformers (Electrical/Mechanical).
  + **Project PTD/DRY** – Automation design process of Brazil, México and ColombiaTransformers (Mechanical in Solidworks).
  + **Project PTW** – Automation design process to generate large power windings in **Solidworks.**
  + **GIS Project** – Global integration system, program to centralize all modules of transformers design
  + **Migration of library for WEG organization** - Migration of the 3D CAD library to search 3D accessories in **SolidWorks** for all WEG product lines (Transformers, Motors, Energy, Inks, Machine, etc.) Approved by IT committee of the WEG group in Jaragua do Sul-Brasil.
  + **Automatic Bill of Materials Project** – Worldwide feature for Bill of materials automation based on 3D models in **SolidWorks.**
  + **Screws program**– Worldwide feature to insert accessories/Screws for any assembly based on calculated rules.
  + **Verifications program** – Automation for technical management process for generate critical point of projects.
  + Implemented **WEG** worldwide layout for drawings CAD **Inventor** in WEG USA.
  + **Scrum** - Implemented an agile way to manage a project for software in Devops/JIRA.

**Environment:** C#, MVVM,WPF, XAML, Oracle, SAP, Framework 4.7, ClickOnce, Newtonsoft json, xml, factories, Singleton, GIT, SVN, Webservices (wsdl), SoliWorks, AutoCad, Teigha, Epplus, ITextSharp Inventor, Devops

**WEG (Transmission & Distribution), Brazil Mar, 2015 – Jul, 2017**

**Senior .Net Developer**

Project Description:Engineering automation Process Project (Various)

**Responsibilities:**

* Responsible for the functionality and implementation of the developed programs in engineering area
* Responsible for develop applications in **C#** with design patterns such as **Singleton**, **Factory**, **Model-View-ViewModel**
* Responsible to create a methodology in **C#** to generate automatically 3D models projects in CAD application as **SolidWorks**/**AutoCad**
* Worked with **multithreading** and **asynchronous** process for time optimization of large concurrent request processing.
* Define and develop **N-Tier Layers** (**Service, Data, Business, User Interface**) for all system modules in the solution
* Develop **webservices (wsdl)** to transfer project data in **json** format and hosting on IT servers service.weg.net
* Support/modify the existing **webservices** and deployed application as per user requirements
* Define source control GIT with the developer’s team
* Define diagram design and tables in Oracle database for all developed applications
* Coaching and code reviewing from other developers to use Microsoft Technologies like **C#, ADO.NET**, **Oracle database, LINQ, design patters**
* **Developed Applications (C# + WPF + Webservices):**
  + **PTD project -** Electrical/Mechanical calculation and generator 3D Transformers program in **Solid works** for distribution and medium power 15 MVA 138 kV with different core/tank format configurations, interacting with some external applications like **SAP**, **AutoCad**, **Excel**, **PDF**, **Solid works**
  + **Document Manager Project** –Worldwide program to manage Solid works layouts with **SAP** communication, used it in Mexico, Brazil and South Africa
  + **Component Manager Project** – Worldwide program to create automation rules to generare any parametrized model and drawings in Solid works, Used it in Mexico, Brasil, Colombia and South Africa
  + **CAD Library WTD** – Worldwide feature to search 3D standard accessories in SolidWorks for engineering project execution
  + **ECM Project** – Worldwide program to manage product modifications to improve the information´s quality, generating a statistic report for managers in Excel
  + **Mass calculation Project** – Worldwide feature in Solid works for generate weight, volume and impregnation´s calculation report of any3D model, used it in Mexico and Brasil
  + **Steel materials project**– Worldwide program to set steel material ode for 3D models based on pieces dimension
  + **SAP Material Creator** - Worldwide program to create materials in SAP based on business rules
  + **QR Code Project** – Generic program for generate QR code with project´s information of customers

**Environment:** C#, MVVM,WPF, XAML, Oracle, SAP, Framework 4.7, ClickOnce, Newtonsoft json, xml, factories, Singleton, GIT, SVN, Webservices (wsdl), SoliWorks, AutoCad, Epplus, ITextsharp, QR Code

**Voltran SA de CV, Mexico Nov, 2007 – Mar, 2015**

**Software Developer**

**Project Description:** Engineering automation Process Project(Various)

**Responsibilities:**

* Responsible for analysis, design, implementation, management and maintenance of full **Software Development Life-Cycle** (SDLC) project.
* Responsible for the functionality and implementation of the developed programs in engineering area.
* Define the methodology between applications with **CAD** applications with **SolidEdge** models to generate automatically **3D** projects.
* Develop spreadsheets in Excel with Macros in **Visual Basic for application** to generate scaled cores **in AutoCad 2006.**
* Define connection to SAP using WEG acad Proxyllibrary (RFC caller).
* Coaching and code reviewing from other developers to use Microsoft Technologies like **C#, ADO.NET**, **Oracle database, LINQ.**
* Support/modify the existing **webservices** and deployed application as per user requirements.
* Managing the Oracle database.
* Participation in the WIS Mexico Project (Weg Implement System), standardization, migration of information and connection to XIMexico-Brazil with **SAP.**
* Participation on migration/homologation of the information between Voltran Mex – WEG Brazil.
* **Developed Applications (Visual Basic 6.0):**
  + **PPD** - Software development for electrical transformer calculations (Core, Windings, Temperatures, electrical distances, etc.)
  + **PTD** – Distribution transformer program that calculates the **electrical/mechanical** of the Transformer, generating all the information to manufacturing
  + **PCB** - Coil cutting program - that generates the 3D coil cutting in **Solid Edge** from a general assembly with all its insulations and dimensions according to the manufacturing order
  + **PB** – Windings Program that calculates all high power transformer windings and generates the design to manufacture

Transformer, generating all the information to manufacturing

* + **PMI**- Active part program that calculates the internal assembly of the transformer, generating the 3D model of the reactor and T.Serie in **Solid-Edge**
  + **PT** – Tank assembler, it´s an interactive program to generate a tank according the user selection in Solid-Edge

**Environment:** VB 6.0, Winforms, Data Access, Framework 3.0, C#, MVVM,WPF, XAML, JSONOracle, SAP, Framework 4.7, ClickOnce, Newtonsoft json, xml, SVN, SolidEdge, AutoCad.