

# CURRICULUM VITAE

## Karla Yadira Heras Gaytan

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### **OBJECTIVE**

I seek to apply the knowledge acquired during my university career using my skills and knowledge in the area of engineering for the benefit of society in the academic area and businesses.

### **SUMMARY OF QUALIFICATIONS**

- Teamwork
- Good communication skills
- Leadership
- Problem solving
- Organization
- Perseverance and self-motivated
- Proactive
- Resilient
- Mathematical-logical thinking.
- Continuous Improvement
- Innovation

### **EDUCATION**

#### **Universidad Autonoma de Ciudad Juarez (UACJ)**

*Master in computed applied*

*Graduation date: October 2019*

#### **Universidad Autonoma de Ciudad Juarez (UACJ)**

*Bachelor of Mechatronics Engineering*

*Graduation date: August 2015*

## **EXPERIENCE**

### **Information Technology Department UACJ**

Ciudad Juárez, MX

May 2021 – at present

#### **Software Developer**

##### **Activities**

Development and design of web platforms and Windows Forms using Visual Studio, Asp.net, SQL Server, C# language, SQL, HTML, CSS.

- Carry out tests to measure quality in the developed systems.
- Detect errors and correct the errors present in the programs.
- Analyze the requirements and suggestions of users.
- Perform the corresponding maintenance on existing systems.
- Prepare operating manuals and technical specifications of the systems.
- Work together with the rest of the team, with other Developers, and Database administrators.
- Consult with clients about the progress of the development of the program or software to determine possible improvements, make suggestions or requirements.
- Prepare reports on the progress of the project.
- Meet with customers and users to design and develop new programs that meet their needs.
- Design, write, read, test and correct the code of new programs.
- Carry out quality measurement tests and detect errors in the development of the program.

### **FreeLancer web platforms Development**

Ciudad Juárez, MX

#### **Web developer**

November 2019 - May 2021

Development and design of web platforms in different object-oriented programming languages using PHP, Java, C#, C++ and for SQL and MySql databases.

Interaction directly with clients interested in the platforms, for the acquisition of the platform requirements.

Fulfilled projects.

- Creation of an employee database for the development of a web platform for the automatic generation of Forms of each of its employees in a restaurant.
- Web page to generate a job bank for a restaurant.
- Development of a platform for monitoring activities and tasks carried out by students in an institute.
- Platform development for the automatic generation of sales reports through tables and graphs.
- Development of platform for requesting quotes
- Web page for advertising.

### **Electrical and Computer Department UACJ**

Ciudad Juarez, MX

Project development

December 2017-August 2019

- Development of a Software as a Service for the Remote Monitoring of People with Diabetes. Using web programming in PHP, CSS, JavaScript and database management with My SQL.
- Development of mobile application, using Android Studio and Java.
- Review and development of research projects for the software engineering department.

## **Go HV Design Automation Workshop**

Design Engineering Internship

Ciudad Juarez, MX

January 2016-March 2016

- Mechanical and fixture Parts design on SolidWorks.
- Interaction and communication with clients.

## **Industrial and Manufacturing Department UACJ**

*Research Professor's Assistant*

Ciudad Juarez, MX

August-December 2013

- Mechanical and fixture Parts design on SolidWorks, and management of a 3D printer.

## **Mechatronics Engineering Department UACJ**

*Robotics laboratory assistant*

Ciudad Juarez, MX

December 2013-December 2015

- Numerical simulation of control algorithms.
- Maintenance and programming of robots.
- Social networks administration.
- Parts design in SolidWorks.
- Performing research activities within the professor's research line.
- Helping in the logistics of academic events of the university.

## **Mechatronics Engineering Department UACJ**

*Investigation project*

Ciudad Juarez, MX

December 2014-December 2015

Design and modeling of a Robotics Aerial Drone, with Gyroscopic and Dual propulsion system. Using programming and simulation on C++, Design in Solid Works and printing parts in a 3D printer.

## **RESEARCH EXPERIENCE**

- October 2016: "Induce Force Hovering of Spherical Robot by Under-Actuated Control of Dual Rotor", in book: Robot Control, Edition 1, Chapter 2, publisher: Intech, pp 19-40.

## **PRESENTATIONS AND COURSES**

2011 "PLC programming" in the XVII week of Engineering at UACJ. (20 hrs).

2012 "SolidWorks Modeling" in the XVIII Week of Engineering at UACJ. (20 hrs).

2013 "Introduction to design control systems using Matlab / Simulink" in the XIX Week of Engineering at UACJ (20 hrs).

## **SKILLS**

### **COMPUTER AND SOFTWARE SKILLS**

- Advanced knowledge of Windows
- Advanced knowledge of Unix/Linux.
- Text processors: Latex, Microsoft Word
- Spreadsheets: Excel.
- Knowledge of CAD Software: SolidWorks, Free CAD, AutoCAD.
- Programming in:
  - C++
  - Python ◦ Arduino ◦ Java ◦ Android ◦ PHP ◦ SQL
- Web page design and programming.
- Mobile application development.
- Management and design of Database.

### **SPECIFIC SKILLS**

- Knowledge of mobile and aerial robotics
- Part design and assembly Modeling in SolidWorks
- Knowledge of manufacturing processes
- PLC programming
- Machinery operation: milling and lathe machine, manual and CNC,
- 100% management of 3D printers

**Language -** English: 85%., Spanish: Native Language.