LUIS EDUARDO RODRÍGUEZ RAMÍREZ

MECATRONICS ENGINEERING

https://www.linkedin.com/in/luis-rodriguez-935613141/

https://github.com/lalodsi

rodriguezramirezluiseduardo0@gmail.com

+52 558 088 3029

WORK EXPERIENCE

Intesc, Internship
JANUARY 2021 - APRIL 2021
- Mexican company dedicated to embedded systems design based on FPGAs and SoCs
- I use FPGA technology oriented to microprocessor implementation (Cortex-M3)
- I provided help about VHDL programming, FPGA technology and digital electronics

Seprocesa, Developer
SEPTEMBER 2021 - OCTOBER 2021
- Mexican company dedicated to cash machines sales and after sales service.
- I worked with front-end technologies (HTML, CSS, JavaScript) and backend techologies (PHP and SQL)
- Improve the productivity of the new projects team up to 30% more than before

EDUCATION

Mechatronics Engineering, B.S.
Instituto Politécnico Nacional (MEXICO) - Advance Technologies School
- Expected graduation date Dec. 2022
- Courses on digital and analog electronics, embebed development (C, assembler), FPGA technology (VHDL, Verilog), virtual reality (C# Unity)

ACTIVITIES & LEADERSHIP

Google Developer Student Club, Core Team.
AUGUST 2020 - JULY 2021
- We are helping students bridge the gap between theory and practice
- During our first year at IPN - UPIITA, we grew the community to 1000+ members and hosted 10+ events/workshops.
- I lectured a workshop on git & github with 40+ attendees
- I gave a web development bootcamp with the core team.

Google Developer Student Club, Lead.
AUGUST 2021 - ACTUALLY
- Selected for the second generation of GDSC Leads in Latin America
- Leading a 29 people team to make events, workshops and meetups
- Actually we hosted 40+ events/workshops and grew the community to 1.7k members.

PROJECTS

Sistema de Adquisición de Datos   (LABVIEW, ENSAMBLADOR, FPGA)
Web app made for store tickets in a database. I used bootstrap for display the data. The web app is responsive.

PoliHacks Landing Page, **Github**   (HTML, CSS, JAVASCRIPT, BOOTSTRAP)
It's a Hackaton in which in addition to be part of the organization, I'm maintaining the landing Page and adding updates.

Cafe May Control   (HTML, CSS, PHP, BOOTSTRAP, SQL)
Web app made for store tickets in a database. I used bootstrap for display the data. The web app is responsive.

TECHNICAL SKILLS

Desarrollo Web y programación
- JavaScript
- Git & GitHub
- TypeScript
- Angular
- NodeJS
- CSS
- HTML
- PHP

Realidad Virtual
- C# (Unity)

Ciencia de datos
- Python
  - numpy
  - matplotlib

LANGUAGES

Spanish
Native language
English
Advanced Proficiency with communication skills

COURSES

Platzi's development courses
Programming, english and personal growing courses
Matlab Completo: De básico a Avanzado

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- I've worked with many people around latin america making workshops and events for other students.

PROJECTS

Controller position system of two freedom degrees for the photovoltaic panels orientation

It's my thesis in which me and my team designed an solar tracker for improve the energy generation of the panels

TECHNICAL SKILLS
Web Development & Programming
- Git & GitHub
- SQL

Mechanical Engineering
- SolidWorks (CSWA Associate)
  - Id: C-J5PU4GB2MX

LANGUAGES
Spanish
Native language
English
Intermediate Proficiency with communication skills

COURSES
Platzi's development courses
Programming, english and personal growing courses

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INGENIERÍA MECATRÓNICA

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elluiso.engineer

EXPERIENCIA LABORAL

Intesc, Practicante
ENERO 2021 - ABRIL 2021

- Compañía mexicana dedicada al desarrollo de sistemas embebidos basados en FPGA y SoCs
- Utilicé tecnología FPGA orientada a la implementación de microprocesadores (Cortex-M3)
- Estuve haciendo documentación sobre implementaciones en FPGA
- Proporcioné ayuda sobre programación en VHDL, tecnología FPGA y electrónica digital

Seprocesa, Desarrollador
SEPTIEMBRE 2021 - OCTUBRE 2021

- Compañía mexicana dedicada al desarrollo de soluciones para el manejo de efectivo
- Trabajé con tecnologías web (HTML, CSS, JavaScript) y principalmente con PHP y MySQL

ESCOLARIDAD

Ingeniería Mecatrónica
Instituto Politécnico Nacional (MEXICO)

- Fecha de graduación estimada. Dic. 2022
- Clases sobre electrónica digital y electrónica, desarrollo embebido (C, ensamblador) y programación (Java, C++, Matlab, C#)

ACTIVIDADES DE LIDERAZGO

Google Developer Student Club, Core Team.
DICIEMBRE 2020 - JULIO 2021

- Durante mi estancia di un taller de git y github y un bootcamp de desarrollo web con el equipo
- Soy parte de algunas iniciativas para crear comunidad. Fui líder de una iniciativa hecha incentivar a compartir experiencias, opiniones y conocimientos entre la comunidad universitaria

Google Developer Student Club, Lead.

- Fuí seleccionado por Google Developers como el líder del Google DSC IPN UPIITA, actualmente estoy mejorando mi liderazgo al trabajar con mi equipo creando diferentes talleres para la comunidad universitaria.
- He conectado con otros líderes de diferentes universidades de américa latina para hacer colaboraciones entre clubes.

PROYECTOS REALIZADOS

Almacen Tickets
HTML, CSS, PHP, BOOTSTRAP, SQL
Realicé una página web que ayude a un negocio a tener el registro de los tickets generados y se mantengan guardados en un sólo lugar.

Apple MX landing page
HTML, CSS
Es un proyecto en donde recreé la página web principal de Apple con el propósito de practicar mis conocimientos de CSS

HABILIDADES TÉCNICAS
Desarrollo Web y programación

- JavaScript
- Git & GitHub
- TypeScript
- Angular
- NodeJS
- CSS
- HTML
- PHP

Realidad Virtual

- C# (Unity)

Ciencia de datos

- Python
  - numpy
  - matplotlib

IDIOMAS
Español
    Competencia Nativa
Inglés
    Intermediate Proficiency with communication skills

CURSOS COMPLEMENTARIOS
Platzi, cursos de desarrollo
    Cursos de programación, inglés y crecimiento personal

Máster en Javascript, Udemy
    HTML, CSS, Javascript, Typescript, NodeJS, Angular, Mongo, Express. MEAN Stack

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EDUCATION & CERTIFICATES

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Instituto Politécnico Nacional (MEXICO) - Advance Technologies School
- Expected graduation date Dec. 2022
- Courses on digital and analog electronics, embebed development (C, assembler), FPGA technology (VHDL, Verilog)., digital signal processing, CAD, CAEM & CAM,

Certified SolidWorks Associate (CSWA)   August 2020
ID: C-J5PU4GB2MX

WORK EXPERIENCE

Intesc, Internship - VHDL programmer
JANUARY 2021 - APRIL 2021
- Mexican company dedicated to embedded systems design based on FPGAs and SoCs
- I use FPGA technology oriented to microprocessor implementation (Cortex-M3)
- I were making documentation about implementations in FPGA
- I were providing help about VHDL programming, FPGA technology and digital electronics

Seprocesa, Developer
SEPTEMBER 2021 - OCTOBER 2021
- Mexican company dedicated to cash machines sales and after sales service.
- I worked with front-end technologies (HTML, CSS, JavaScript) and backend techologies (PHP and SQL)

LEADERSHIP EXPERIENCE

Google Developer Student Club, Core Team.
DECEMBER 2020 - CURRENT
- Student club made for helping students bridge the gap between theory and practice
- During our first semester at IPN - UPIITA, we grew the community to 300+ members, hosted 10+ events/workshops and had a 100K+ reach on Facebook

Google Developer Student Club, Leader.
AUGUST 2021 - ACTUALLY
- Selected for the second generation of GDSC Leads in Latin America
- Leading a 29 people team to make events, workshops and meetups
- Actually we hosted 40+ events/workshops and grew the community to 1.7k members.
- I've worked with many people around latin america making workshops and events for other students.

RELATED EXPERIENCE AND PROJECTS

VGA Display control using FPGA through infrared remote control
I design a VGA display control via sending instructions though infrared

Data Adquisition System using PIC and FPGA
I design a Data Adquisition System using FPGA with VHDL and PIC with assembler, I also use LabVIEW as UART interface to control and observe data.

More than 15 projects using FPGA

TECHNICAL SKILLS

Development & Programming
- LabVIEW
- JavaScript
- Python
- Git & GitHub

Embebed Development & FPGA technology
- Arduino, C++
- C to microcontrollers
- VHDL & verilog

Electronic Design
- ISE Design Suite
- Active-HDL
- MPLAB X
- Proteus

Mechanical Engineering
- SolidWorks (CAD & CAM)

LANGUAGES

Spanish
  Native language
English
  Advanced Proficiency

COURSES

Platzi's development courses
  Programming, english and personal growing courses

WORK EXPERIENCE

Intesc, Internship

JANUARY 2021 - APRIL 2021

- Mexican company dedicated to embedded systems design based on FPGAs and SoCs
- I use FPGA technology oriented to microprocessor implementation (Cortex-M3)
- I were making documentation about implementations in FPGA
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Instituto Politécnico Nacional (MEXICO) - Advance Technologies School

- Expected graduation date Dec. 2022
- Courses on digital and analog electronics, embeded development (C, assembler), FPGA technology (VHDL, Verilog).

ACTIVITIES

Google Developer Student Club, Core Team.

DECEMBER 2020 - CURRENT

- We are helping students bridge the gap between theory and practice
- During our first semester at IPN - UPIITA, we grew the community to 300+ members, hosted 10+ events/workshops and had a 100K+ reach on Facebook
- I have given workshops about tecnology. I'm part of some initiatives to make community

Exhibition about virtual reality and AR

DECEMBER 2020

- Talk to students about the importance of virtual reality and some of my projects made with **C#**. Video

PROJECTS

VGA Display control using FPGA through infrared remote control

JULY - 2020

I make a VGA display control via sending instructions though infrared

ROM with verilog to play songs

JULY - 2020

I make a ROM using FPGA andverilog and play it using a speaker and its power stage

Data Adquisition System using PIC and FPGA

JULY - 2020

I make a Data Adquisition System using FPGA with VHDL and PIC with assembler, I also use LabVIEW as UART interface to control and observe data

More than 15 projects using FPGA

ROM with verilog to play songs

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I make a ROM using FPGA and verilog and play it using a speaker

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I make a Data Adquisition System using FPGA with VHDL and PIC with assembler, I also use LabVIEW as UART interface to control and observe data

More than 15 projects using FPGA

TECHNICAL SKILLS

Development & Programming

- LabVIEW
- Java
- JavaScript
- Python
- Git & GitHub

Embeded Development

- Arduino, C++
- C to microcontrollers
- VHDL
- verilog

Electronic Design

- ISE Design Suite
- Active-HDL
- MPLAB X
- Proteus

LANGUAGES

Spanish

Native language

English

Intermediate Proficiency with communication skills

COURSES

Platzi's development courses

Programming, english and personal growing courses

Web de compras
ANGULAR, TYPESCRIPT
Is a simple shopping web page using angular

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ANGULAR, TYPESCRIPT
Is a simple shopping web page using angular

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CONTACT

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elluiso.engineer

ABOUT ME

I'm a mechatronics engineering student and web development (self-taught) with the capability of lead and work in teams and share ideas, knowledge and opinions to help others. I consider myself as a organized person

TECHNICAL SKILLS

Principal: Git, JavaScript, HTML, CSS, Frameworks: Angular, Bootstrap
Data Science: Python (numpy, scikit learn and matplotlib)

LANGUAGES

Spanish: Native language
English: Intermediate Proficiency with communication skills

MECHATRONICS ENGINEERING

EDUCATION

Instituto Politécnico Nacional
Mechatronics Engineering

- Expected graduation date Dec. 2022
- Courses on digital and analog electronics, embebed development (C, assembler), FPGA technology (VHDL, Verilog).

WORK EXPERIENCE

Intesc, Internship
VHDL Programming | January 2021 - April 2021

- Mexican company dedicated to embedded systems design based on FPGAs and SoCs
- I provided help to 100+ people about FPGAs, VHDL programming and electronics
- Checked and maked documentation about FPGA technology

ACTIVITIES AND LEADERSHIP

Google Developer Student Club, Core Team
January 2021 - April 2021

- During our first semester at IPN - UPIITA, we grew the community to 300+ members, hosted 10+ events/workshops and had a 100K+ reach on Facebook
- I lectured a workshop on git & github with 30 attendees and I'm giving a web development bootcamp with the core team
- Leading an iniciative made for connect with |people and help them to share their opinions, experiences, and knowledge with other students

PROJECTS

Phobicsol project
- At Google DSC Solution Challenge LATAM, developed a Virtual Reality App using Unity and C# programming
- We prepare a video speech to explain our project, its importance and our future plans

Personal Web Page
- Made for share my projects and activities

Data Adquisition System using PIC and FPGA
- I make a Data Adquisition System using FPGA with VHDL and PIC with assembler.
- Use LabVIEW programming as UART interface and made the User Interface (UI)