DAVID FERNANDO ORTEGA TAMAYO

COMMUNICATIONS AND ELECTRONICS ENGINEER

CONTACT

🏠 Jaral del Progreso, Guanajuato, Mexico

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Technical Knowledge

- LABVIEW
- MATLAB
- C/C++/C#
- Python
- MATHEMATICA
- Scilab
- ALTIUM DESIGNER
- NI MULTISIM
- FPGA
- VHDL/Verilog
- RS232 INTERFACE
- GPIB(IEEE 488)
- PCBs
- Microsoft Azure

- Java
- MINITAB,
- OPTICS(FIBER OPTICS, LASERS, NON-LINEAR OPTICS).
- SOLIDWORKS
- CATIA V5
- Microsoft Office
- Windows 10
- Electric Circuits
- Digital Systems
- Computer repair

Other Data

Course of interpretation of mechanical plans
GRUPO INGENIA.

Diplomat in Electronic System Design(Design of PCBs, Programming(C,C++,Python), Microcontrollers, Design of Digital Systems(FPGA programming with Verilog), Real Time Operating System(RTOS))
IPN-CINVESTAV GUADALAJARA and IECA

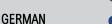## SKILLS

- Teamwork
- Leadership
- Responsibility
- Proactive

- Honesty
- Group management

LANGUAGES

SPANISH (Native) ● ● ● ● ●

ENGLISH ● ● ● ● ○

GERMAN ● ○ ○ ○ ○

Professional objective

To be part of a work team where I can develop the skills and knowledge acquired throughout my curricular training, consolidate myself professionally in a company concerned about the growth and stability of both work and staff of its work team.

EDUCATION

BACHELOR DEGREE IN COMMUNICATIONS AND ELECTRONICS ENGINEERING
UNIVERSITY OF GUANAJUATO   2008-2017
General Average: 8.25/10
Professional identification number: 1991313

WORK EXPERIENCE

High school Teacher   OCT-DEC 2020
VIDEO BACHILLERATO SABES SAN JOSÉ PARANGUEO
- Prepare and apply: partial and extraordinary exams.
- Check homework, advise and y regularize students.
- Teach the subjects of: Technical drawing,Differential calculus, Communication theory, Information and Communication Technologies 1 and 3,Geometry and Trigonometry, as well as Algebra 1.

High school Teacher   FEB-JUN 2020
CETIS 160 Emiliano Zapata
- Prepare and apply: partial and extraordinary exams.
- Check homework, advise and regularize students.
- Teach the subjects of: Install and configure operating systems and office automation applications, as well as manage files and office devices.

General assistant   JAN-DEC 2019
SOLUCIONES DE INGENIERÍA CIVIL, TOPOGRAFÍA E HIDRÁULICA S.A. DE C.V.
- Perform masonry work
- Place black corrugated pipe for drainage, drain strainers, as well as drains.
- Help to lay a layer of concrete for the streets.
- Operation of construction machinery: concrete mixer drum, concrete vibrator and vibratory rammer.

QUALITY ENGINEER   APR-DEC 2018
HONDA
- Solve electrical problems and those presented in the production line.
- Perform containments at the Honda plant by separating the units in line either by exchanging the defective component or reworking.
- Perform external supplier audits.
- Maintain communication by telephone and by email with the supplier.
- Carry out the arragement of units in the yard as well as labeling automotive parts.
- Cleaning assistant for the Honda automotive plant.

RESEARCH EXPERIENCE

- Magazine publication at Revista Jóvenes en la Ciencia de la Universidad de Guanajuato (01/2017)Desing of a low-costspectrometer through the use of a CCD camera and a diffraction grating inthe range of UV, visible and IR for the analysis of light sources.
- D.F. Ortega-Tamayo, O. V. Shulika, I. A. Sukhoivanov, I. V. Guryev, O. G. Ibarra-Manzano, E. Alvarado-Méndez, and J. A. Andrade-Lucio. Spatial shock wave formation by diffraction effect in a photorefractive medium. Nonlinear Optics 2015. Optical Society of America. Kauai, Hawaii, United States.

- J.A. Andrade-Lucio, O.V. Shulika, D.F. Ortega-Tamayo, I.V. Guryev, O.G. Ibarra-Manzano, E. Alvarado-Méndez, I.A. Sukhoivanov. Multiple photorefractive waveguides formed by diffraction effect. Mexican Optics and Photonics Meeting 2015. Leon, Guanajuato, Mexico.

- Solar lighting lamp with plastic optical fiber for indoors of 300 LUX, called "ILU-GREEN". In collaboration with a private company and the University of Guanajuato. This served as my profesional service.