

Erick Abigail Ponce Huie | Electronic Engineer

+52 614 218 8044 | greatekoh@gmail.com | Chihuahua, Chih., Mexico | <https://github.com/eKoh951>

Skills

Soft skills	Software & Design	Programming and protocols
<ul style="list-style-type: none">• Excellent communication in English• Experience in demanding projects• Self-taught, proactive and organized• High sense of urgency• Efficient in problem solving• Fast pace of learning• Committed to delivering projects on time• Results-focused• Work for the team	<ul style="list-style-type: none">• Solidworks 3D, Electrical, PCB• Altium Designer, Eagle CAD• TIA Portal• RobotStudio, Process Simulate• Visual Studio C#, VB, VSCode• Microsoft y Adobe Suite• Design with long assemblies• Instrumentation design• Mechanical design• Design of control and power electronics• Knowledge in 3D printing• Integration with IoT and BigData technology• HMI integration into TIA Portal	<ul style="list-style-type: none">• CAN BUS, I2C, SPI, USB, UART, Profinet• Assemble, C, C, C #• HTML5, CSS3, Bootstrap• WordPress, WooCommerce• JavaScript ES6+, jQuery, JSON• Node.js, Express, REST APIs• PHP, MongoDB, MySQL• Version control (Git)• Heroku• Bash/Shell CLI• Arduino, RaspberryPi2, Kinetis K Series• PLCs Allen Bradley• LAD, FBD, SCL

Experience

Robotic Cell Design, Simulation and Programming - [Aurom, Present] 2 years

Integration of industrial processes to automated processes with industrial robots, from the concept of the cell, layout design and **mechanic design for fixtures** and tooling, to computer **simulation** and **communication** with virtual PLC through **TIA portal** to validate the correct functioning of the production programs with virtual **HMI** integration.

Pioneer in the simulation of robotic cell programming within the company and in charge of **training** the new simulation **department** for 10 programmers in simulation through video courses, with support of practices, real projects and accreditation exam.

Electronic and mechanical design and programming - [LED Genesis / Digital Manufacturing] 6 months

Redesign of power systems, redesign of LED lamps, 3D design of enclosures, redesign and supervision of production lines, instrumentation design with IoT and BigData technologies, research and development of 3D printing.

Assisted design with **Solidworks**, **firmware** and **GUI** programming written in **C#**.

Electronic and mechanical design and programming – [Formula SAE / ITCH] 1 year

Design, programming and manufacture of embedded systems applied in a type carriage formulated under standards similar to those of Formula One on a more flexible scale.

Firmware developed in **C++** on the Kinetis KL 25Z and Arduino Uno development card. **GUI** developed in **Visual Studio** in **C#** Mechanical design of **3D printed** housings for the **embedded system** assisted by Solidworks 3D and electrical.

Video game owner – [Aria Ragnarok Online] 1.5 years

Developer of the game, website, promotion, project and resource management. **1 year of development** and **6 months of maintenance**.

Website carried out from **the design** (photoshop), **frontend** (html5, css3, JavaScript) and **backend** (php, mysql).

The game is cloned from an [open-source repository](#) written in C++ at a low level and at the high level is programmed with [scripting](#) (similar to JavaScript).

Education

[Instituto Tecnológico de Chihuahua] – [Electronic Engineer, Languages

Chihuahua] [2013] – [2018]

Club Formula SAE - [2017] - [2018]

IEEE [2015] - [2017]

Electronic Commission [2015] - [2016]

[CBTis 122] - [Mechatronic Technician] 2010 - 2013

Spanish - Native language

English - 550 points on TOEFL ITP

German - A2

Chinese Mandarin - HSK 2 and HSKK1

About Erick Abigail Ponce Huie

Passionate about technology development projects, always looking to deliver a robust, affordable and realistic product where users really take advantage of it.

Eager to learn new technologies.

From the age of 16, began to develop software in the web and video game industry.

Hobbies

- Video game development
- Learning new skills
- Watch anime
- Playing competitive games
- Playing Smash Brothers Melee (Top 10 from Chihuahua)
- Playing Paladins (Top 16% in Ranked)