JOSÉ OLAF HUERTA DE LA VEGA

Embedded Biomedical Engineer

ABOUT ME

I am interested in new challenges and meeting professional people to learn from them. My greatest passion is getting new abilities and acquiring knowledge, but also to share and apply my own. I have a special interest in the application of technology in healthcare. My hobby is building do-it-yourself prototypes.

Jalisco Mexico. Relocation available.

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https://github.com/olafhuerta97

https://www.linkedin.com/in/olaf-huerta97/

https://olafhuerta97.github.io/

EDUCATION

Biomedical Engineer
2016 – 2020
Tecnológico de Monterrey – Guadalajara, Jalisco, Mex.

Electricity & electronics Technician
2012 – 2016
Centro de Enseñanza Técnica Industrial – Guadalajara, Jalisco, Mex.

LANGUAGES

Spanish	*Mother Tongue*
English	*Advanced/Conversational* *(TOEFL ITP 568)* *(BULATS C1)*

SOFT SKILLS

- Adaptability
- Handling work under pressure
- Project management
- Passion to work
- Strong communication skills

EXPERIENCE

Vitesco Technologies (Formerly Continental Automotive)
Feb 2021 – Present
R&D Software engineer

- Integration and testing of firmware drivers for Transmission Control Units, such as Safety, Communications (I2C, SPI, GPIO, RS-232, FDCAN), MEM, Stack, Memory location, MPU and Bootflow.
- Customer Technical Support
- 32-bit ARM and Tricore Infineon microcontrollers.
- Software architecture in Drivetrain project.
- MISRA compliant development.
- Assembly language debugging.
- Practice .cmm and Python scripting for CI/CD services.
- Software Management in Git.

Remote Freelancer
Jan 2022 – Present

- Embedded developer and architect in electrification project for Group Control Indian Company.
- ARM cortex M STM32 microcontrollers.
- HDLC, DLMS protocols driver implementation.

Soluciones Kenko (Biomedical Startup)
Feb 2020 – Sept 2020
Software intern

- Software development in **embedded systems** focused on medical devices and healthcare innovation.
- Bootloader implementation.

HARD SKILLS

- *Programming* C/C++, Python, Shell/Bash
- *Mathematical Software* MATLAB
- *Communication Protocols* I2C, SPI, UART, CAN, ETH, BLE, MQTT
- Digital Signals Processing.
- *Biosignals specialty.*
- *Unit and Static Testing*
- Design, simulation, and implementation of electronic circuits.
- Version control system Git. (certified)
- Real Time Operative System (certified)
- *Debugging tools* Oscilloscope, multimeter, and logic analyzer.

RELEVANT PROJECTS

- **Raspberry Home Server** / Hobby project.
  Results: Media server, NAS, VPN, Visual Studio Code, DNS server, MQTT Broker.
- **AstraZeneca Sustainability Hackathon 2020** / Energy saving contest / Four countries, 50 teams / Winner.
  Results: First place winner. https://youtu.be/Tqe6Y33PRpU
- **Psychiatric patient finder** / Patient safety implementation / embedded system project.
  Results: Prototype test run at Psychiatric Hospital. *See more on my website.*
- **Biomechanical Studies** / Movement analyzes / Anatomical and physiological knowledge.
  Results: Sports and movement analysis using Kinovea, MOCAP and MATLAB.