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.

PERSONAL DETAILS

Colinas de Santa Anita Tlajomulco de Zúñiga

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+ 52 33 1249 9965

https://github.com/olafhuerta97

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

https://olafhuerta97.github.io/

LANGUAGES

Spanish *Mother Tongue*

English *Advanced (TOEFL ITP 568) (BULATS C1)*

SOFT SKILLS

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

SOCIAL SERVICE

INCUBADORA SOCIAL JOCOTÁN
Jan 2018 – Aug 2018
Elementary school mathematics professor

EDUCATION

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

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

EXPERIENCE

Soluciones Kenko
Feb 2020 – Sept 2020
Software intern

- Software development in **embedded systems** focused on medical devices and healthcare innovation.
- Bootloader implementation.
- IEC-60730 & -60335 satisfied.
- 32-bit ARM architecture microcontrollers.

Traumaservice Internacional
May 2019 – Aug 2019
Operations intern

- Technical support to trauma and orthopedic surgical equipment.
- Project evaluation of industrial washing machine installation.

DAFCOM
July 2016 – Mar 2019
Jr. Technician

- Security systems, control, and maintenance of IT systems.
- Residential and industrial electric installations.

HARD SKILLS

- *Programming* C/C++, Java, Swift, Python, R
- *Design* CAD (AutoCAD and SolidWorks)
- *Mathematical Software* MATLAB
- *Communication Protocols* I2C, SPI, UART, CAN, USB, I2S
- Digital Signals Processing.
- *Biosignals specialty.*
- 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

- **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 personal website.*
- **Biomechanical Studies** / Movement analyzes / Anatomical and physiological knowledge.
  Results: Sports and movement analysis using Kinovea, MOCAP and MATLAB software.
- **Myoelectrical controlled thumb prosthetic** / Biomechanics.
  Results: Design and implementation with 3D printing.