

David de los Santos Cuy Sánchez

Mechatronics Engineer

Summary

I'm a Mechatronics Engineer with experience as web Full-Stack developer, integrating software and hardware for IoT projects. I also work with electronic design, processing signals, microcontroller, linux embedded systems. My passion is about techs development and computer vision systems.

Experience

2017–Actual **Co-Founder & Technology director**, *Centro de Innovacion y Desarrollo Studio AV S.A.P.I. de C.V.*, Mérida, Yucatán.

- Firmware development
- Cloud based architecture design
- Web development (Backend - Frontend)
- Planning and teaching workshops and courses
- **Projects**
 - AVi Energy Labs - Industrial machines monitoring system
 - Puntíe - Ballet dancer's movement sensor
 - Sinbio dispenser - Level liquid meter monitoring system
 - Vinden - Urban transport integral system (Software only)
 - SWAPP cloud - Taxis management and control system (Software only)
 - Electronics and microcontrollers workshops and courses

2016–2017 **Web Jr development**, *Desarrollo de Proyectos de Ingeniería del Suereste S.A. de C.V.*, Mérida, Yucatán.

Actividades y proyectos:

- Zenzzer - Data analysis web page development
- UrbaTv - Start-up of local server
- Vinden - Passenger counter sensor development
- Course teaching "Introducción a Raspberry pi"
- Minis2000 - Project leader of web development

2015 **Programmer**, *Áurea - Desarrollo Tecnológico*, Mérida, Yucatán.

Intern

- Development of a remote weather station
 - Firmware sensor development
 - Programming of computer vision algorithms

2015 **Maintenance assistant**, *Momentum Hrx S.A. De C.V.*, Mérida, Yucatán.

2013 **Arduino workshop teacher**, *Facultad de Ingeniería UADY*, Mérida, Yucatán.

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Education

2011–2016 **Bachelor's degree in mechatronics engineering**, *Universidad Autónoma de Yucatán*, Mérida, Yucatán, México, *Mechatronics Engineer*.

Relevant Courses

2015 **Diseño y caracterización de una red de microcontroladores usando la interfaz Bluetooth de baja potencia**, *Universidad Autónoma de Yucatán*, Mérida, Yucatán, México.

Summer residence "Jaguar 2015".

2014 **Diseño de programa para la obtención de dimensiones de objetos utilizando OpenCV**, *Universidad Autónoma de Yucatán*, Mérida, Yucatán, México.

Summer residence "Jaguar 2014".

Skills

- Software development
 - Server side languages
 - PHP
 - Framework *Laravel*
 - Client side languages
 - HTML5 - CSS3 - Javascript - TypeScript
 - Frameworks *Bootstrap* - *JQuery* - *Angular*
 - Python
 - OpenCV library
 - SQL databases
 - C#
 - C++
 - C
- Embedded systems
 - Cypress
 - Atmel
 - Espressif
 - Particle.io
 - Raspberry Pi
- Extras
 - PCB design (KiCad)
 - CAD design (SolidWorks)

Languages

Spanish **Native language**

English **Intermediate**

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