



David de los Santos Cuy Sánchez

Mechatronics Engineer

Summary

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

Experiencia laboral

2020–Actual **Co-Founder & CTO**, *Soluciones digitales para la industria y energía S.A.P.I. de C.V.*, Monterrey, Nuevo León.

- Firmware development
- Web development (Backend PHP - Laravel y Frontend Angular)
- AWS cloud architecture design
- Web platform deployment on AWS in different environments (Dev, Demo, Production)
- **Project description**
 - AVi Energy Labs is an industrial machinery energy monitoring system on AWS platform. It uses many services as [EC2, RDS, VPC, Security Groups, S3, Glue, Athena, ElastiCache, SNS, SQS, etc...]

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

- Firmware development
- Web development (Backend - Frontend)
- Planning and teaching workshops and courses
- **Projects**
 - *Decide Market Design* - Automated massive phone call system for public interest poll
 - *Swapp Pay* - Automated payment and billing system for taxi drivers
 - *Puntíe* - Ballerina's movement sensor, this one was a participant in **Shark Tank México** TV show
 - *Vinden* - Urban transport integral system (Passenger counter module)
 - *SWAPP Cloud* - Taxis management and control system (Principal view update)
 - *Sinbio dispenser* - Level liquid meter monitoring system
 - *Electronics and microcontrollers workshops and courses*

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🌐 davidcuy.github.io • in david-cuy-59a3b7129 • 🐙 DavidCuy

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

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

Education

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

Relevant Courses

2019 **Impartición de cursos de formación de capital humano de manera presencial grupal**, *Consejo Nacional de Normalización y Certificación de Competencias Laborales*, Mérida, Yucatán, México.

Folio CONOCER: D-0005696419.

2019 **Black belt**, *dev.f*, Mérida, Yucatán, México.

Architecture design to create web applications (60 hours).

Skills

- Software development
- DevOps
 - Bitbucket pipelines
 - Backend
 - PHP - Laravel Framework
 - Python - Serverless Framework
 - Frontend
 - HTML5 - CSS3 - Javascript - TypeScript
 - Frameworks *Bootstrap - JQuery - Angular*
 - Python
 - OpenCV
 - Pandas
 - Scrapy
 - BeautifulSoup
 - Database
 - SQL (MySQL)
 - NoSQL (DynamoDB)
 - Others
 - C#
 - C++
 - C

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Embedded systems

- Cypress
- Atmel
- Espressif
- Raspberry Pi

Languages

Spanish Native
English Intermediate

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