

Hugo Villanua Vega

Data, AI, Robotics | Product development

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Passionate about data, AI and robotics, with a knack for management and bringing new ideas to life. I help companies develop client-centric products and make strategic decisions based on data.



Work Experience

Rapyuta Robotics, Tokyo, JP

Engineering Lead

Jun 2021 – Present

- **Lead** a multidisciplinary team of engineers using **agile** methodologies
- Design and implement **major features**, bug triage and resolution
- Engineer solutions facilitating proactive identification, resolution, and traceability of customer issues across all support tiers, enhancing overall customer satisfaction
- **Planning and coordination** of product development and release lifecycle
- Conducted over 160 interviews for multiple engineering roles
- **Mentor** 10 engineers, ranging from junior to senior, of which 50% promoted

Cross Compass, Tokyo, JP

AI Engineering Manager

Apr 2020 – Jun 2021

- **Manage** consulting and product teams
- Oversee and coordinate production, budgeting, quality control and testing
- **Initiate and lead** the transition from one-time projects to products
- Optimize operations by implementing **office automation**

AI Group Leader

Jul 2019 – Apr 2020

- Optimize resources to ensure high productivity and progression for projects
- **Design and implement** a robot navigation platform
- Lead scientific **research** and implementation on image classification, robot grasping and fleet navigation

AI Consultant

Sep 2018 – Jul 2019

- Image and video recognition with **deep learning**
- System modelling and optimization with **machine learning**

HI Iberia, Madrid, ES

Data Analyst

Apr 2016 – Sep 2018

- **ETL** and data processing for **big data** using **Hadoop**, **Hive** and **Oozie**
- KPI and dashboard data visualization with **Tableau**

Flyster, Madrid, ES

Co-founder

May 2015 – Dec 2015

- Start-up building a travel recommendation platform based on user preferences
- Apply **NLP** to power searches using Apache Solr

Indra, Madrid, ES

Development Engineer

Aug 2014 – May 2015

- Develop automated reports integrated with **Microsoft and Oracle SQL**

Hanscan Id. Manage, Madrid, ES

Embedded Software Engineer

Dec 2012 – Jul 2014

- Develop biometric applications for desktop and **ARM embedded systems**

Education

Quantic School Of Business And Technology

MBA

Apr 2020 – Apr 2021

Udacity

Self-driving Car Nanodegree

Sep 2017 – May 2018

Complutense University, Madrid, ES

BSE + MS: Computer Science Engineering

Sep 2007 – Aug 2012

Patents

Patent 7357878 (control optimization for separation of liquid and solid sludge)

PCT/JP2019/031945 (fine-tuned tool selection for machinery production)

PCT/JP2019/031946 (generation of intermediate workpiece steps for machinery production)

PCT/JP2019/031947 (automatic process design based on workpiece shape data)

Software

Python, C++, SQL, Linux

Languages

English, Full Professional Proficiency, CAE, CEFR level C1

Spanish, Native

Japanese, Conversational Level, JLPT N3

Chinese, Elementary Proficiency, HSK 2, CEFR level A2