

# 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 team of engineers using **agile** methodologies
- Spearhead initiatives to improve team **productivity** and **adoption** of AI technologies
- Design and implement **major features**, bug triage and resolution
- Identify and propose methods to remove obstacles to **increase ROI**

**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**

2019-234419 (Pending)

PCT/JP2019/31945 (Pending)

PCT/JP2019/31946 (Pending)

PCT/JP2019/31947 (Pending)



## **Software**

Python, C++, SQL, Linux



## **Languages**

English, Full Professional Proficiency, CAE, CEFR level C1

Spanish, Native

Chinese, Elementary Proficiency, HSK 2, CEFR level A2

Japanese, Basic