Juan Pablo Mantilla Oliveros

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**Achievements**

* First place in the Autonomous Regions phase of the XXV Olimpiada Española de Biología.
* Reached the national phase of the Olimpiada Colombiana de Matemáticas 2012, 2013 and 2014.
* Completed “Biomedical Engineering: Analysis, Computing and Applications” seminars by CEEIBIS 2016.

**Education**

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| **2018 - 2019** | **Master's Degree in Innovation and Entrepreneurship in Biomedical Engineering** *Universitat de Barcelona,* Barcelona, Spain   * Excelled in Machine learning, Financial management of biomedical firms, Management of Innovation and Entrepreneurship coursework |
| **2014 - 2018** | **BS in Biomedical Engineering** *Universitat de Barcelona, Barcelona, Spain*   * Excelled in Modeling of biological systems, Innovation and Creativity in Organizations coursework * Awarded “The Best solution developed to address the needs of a health information system based on continuity of care” in the Medical Informatics and Telemedicine course. * Dissertation: “Modeling and Control of Anesthetic Drug Effects on Physiological Signals Using Neural Networks.” Advisor: Dr. Pedro Gambús |

**Experience**

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| **2022 - Present** | **Co-Founder** *MantEch*   * Responsible for market analysis and creating business and financial plan |
| **2020 - Present** | **Freelance IT** *Various*   * Created an automatic page navigation system based on Microsoft Edge Read Aloud. * Developed and maintained Backend and Frontend for web game using Django and ReactJS. * Unit Testing * DB management (PostgreSQL,MySQL,SQLite) * Token based Authentication * Design of game solving algorithms |
| **2017-10 2019-07** | **R&D Engineer** *Quantum Medical - Universitat de Barcelona*   * Defined and standardized protocol to extract and pre-process data from 10 years’ worth of patients’ records. * Implemented several Artificial Neural Networks to predict sedation effect of anesthetic drugs and control doses in real time * Participated in data collection in ORs, following OR and clean room procedures. |

**Skills**

Python

LabView (CLAD)

JavaScript

Django

ReactJS

MATLAB

C#

TensorFlow/Keras

R/RStudio

**Languages**

English

Spanish

Catalan

**Hobbies & Interests**

Chess: 1800 rated (2000 Lichess)

Music: I play bass and guitar and love listening to live music.

Fitness: I enjoy cooking healthy food and going to the gym.