

Jordi Albanell Flores

Phone: +44 7738 667864

Email: jordi.albanell17@ic.ac.uk

Portfolio: jordialbanell.com

Education:

Imperial College London (ICL)

October 2017 – Present

Major: Masters in Design Engineering at the Dyson School of Design Engineering - Class of '21

2nd Year End Result: First-Class Honours

Modules: Computing | Mechanics | Robotics | Optimisation | Entrepreneurship | Energy Design | Maths
Data Science | Mechatronics | Productin & Materials | Electronics | Computer Aided Engineering

American School in London (ASL)

August 2009 – June 2017

Modules: Calculus | Physics | Statistics | French | Computer Science | Economics | Robotics

Work Experience and Extracurriculars:

The Magic of Things Ltd. Design Engineer Intern

July – September 2019

Managed new event product creation from initial prototype brainstorming, to 3D design, printing and hardware assembly, to finally adapting or writing new embedded functionality software.

FIRST Tech Challenge UK Intern

July 2018

Worked on resources for thousands of teachers and students for a mentor-based robotics educational programme so they know what they should do to properly make a robot and run a team.

Lindner Interiors Ltd. Shadowing

April 2018

Shadowed the head of Design and Technical by attending meetings and going to various sites in London. I learned about his ongoing projects and which decisions he needs to make in a lead role.

PlanMyGapYear teacher volunteer

September 2018

Volunteered for a month at a monastery called Nala Gumpa in Nepal. During weekdays from 9:00-15:00 I taught English and Math to monks ages 5-18 by planning my own class exercises.

FIRST Robotics Mentor

January 2018 – Present

Mentored a team of 50 students in the American School in London to build a successful robot for the FIRST Robotics competition to compete in regional at Shenzhen.

Used experience from victories as a student captain in New York '14 & '15 and Shenzhen '17 regionals.

Imperial College Football Treasurer

October 2017 – Present

Managed the budget for 173 members. Tasks include paying for events, hiring the coach and booking games.

Design Engineering Projects:

Brand and Product Development: Developed a brand called COU for UK vocational drivers that targets neck strain caused by long vehicle shifts. Used SolidWorks, Arduino, and 3D-printers to make a functioning product.

Mechatronics: Created a machine to play Rock Paper Scissors against a human. Used SolidWorks, Python, and workshop tools to assemble the mechanism.

Electronics: Programmed a mini-Segway with a Pyboard that used PID Control to self balance and dance. Designed an autonomous small vehicle to avoid obstacles using IR and Hall sensors using PWM motors.

Computing: Designed recursive and improved greedy algorithms in Python that found a perfect tiling solution of an arbitrary finite polyomino region given set of Tetris pieces.

Skills and Awards

Computer: Programming in Java/Python/MatLab/C++, Computer-aided Design (CAD), Solidworks, SketchUp, Microsoft Office (Word, PowerPoint, Excel), Adobe Illustrator/InDesign/Photoshop/Premier Pro.

Languages: Fluent in English, Spanish and Catalan. Proficient in French

Interests: Mathematics, Robotics, Soccer, Tennis, Running, AI, Cooking, Reading, Teamwork, and Traveling

Awards: Dean's List Semi-Finalist (FIRST Robotics), The Head of School's International Award (HS), and The ECIS Award for International Understanding (HS)