

# Jordi Albanell Flores

Phone: +44 7738 667864 Email: jordi.albanell17@ic.ac.uk

## EDUCATION

---

### Imperial College London (ICL)

October 2017 – Present

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

**1<sup>st</sup> Year End Result:** Upper Second-Class Honours

**Modules Include:** Computing, Mechanics, Energy and Design, Engineering Design, Mathematics, Data Science, Mechatronics, Production & Materials, Electronics, Communication in Design, Computer Aided Engineering

### American School in London (ASL)

August 2009 – June 2017

**Courses Include:** AP Calculus, AP Physics, AP Statistics, AP French, AP Computer Science, AP Economics

## 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.
- Projects included a self-stirring bowl, floating cocktail glasses, wand holsters, and many more.

### 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.
- Used InDesign and Illustrator, as well as all the information I gathered on my seven years as a robotics student, to make the resources now online (<https://www.firstuk.org/>).

### 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 my 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.
- Organized the matches for seven teams for their respective UK leagues as fixture Secretary for the 2017/18 season.

## DESIGN ENGINEERING PROJECTS

---

- 1<sup>st</sup> Year Design Team Project:** Developed an urban technology brand called ITIO that improved the well-being of Londoners by pushing technology through fashion. Used SolidWorks and 3D-printers to make five prototypes.
- 1<sup>st</sup> Year Electronics Team Project:** Designed a vehicle using a Pyboard that autonomously avoided obstacles using IR and Hall sensors and participated in a soccer penalty shootout using PWM and Servos.
- 2<sup>nd</sup> Year Computing Solo Project:** 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.
- 2<sup>nd</sup> Year Design Team Project:** Developed a brand called COU for UK vocational drivers that targeted neck strain caused by long vehicle shifts. Used SolidWorks, Arduino, and 3D-printers to make a functioning product.

## SKILLS & AWARDS

---

**Computer Skills:** Programming in Java/Python/MatLab/C++, Computer-aided Design (CAD), Solidworks, SketchUp, Microsoft Office (Word, PowerPoint, Excel), Adobe Illustrator, Adobe InDesign, and PREZI

**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)