

Pedro Luiz Brega Monteiro

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Profile

I am currently in my third year of studying Electrical and Electronic Engineering at Imperial College London. I am extremely passionate about this field of study and hope to apply my skills in my career to help solve complex problems.

Education/Awards

A level – Pimlico Academy – 2016

- Mathematics – A*, Further Mathematics – A*, Physics – A, Chemistry – A, Biology (AS) – A
- Awarded highest achiever in mathematics
- Awarded bronze and silver award in UK maths challenge (years 2014 and 2015 respectively) and participant in UK team maths challenge

Electrical and electronic engineering/MEng – Imperial College London – Graduation date 2020

- Current grade 2.1
- Third year modules: Machine learning, biomedical electronics, Artificial intelligence, Mathematics for signals and systems, deep learning, high level programming and embedded systems.

Skills

I have experience in a wide variety of programming languages such as C++, Python, Kotlin, Java, Verilog, Prolog, HTML, CSS, and ARM Assembly language. I am most proficient in C++ as I have programmed with this language for the longest period of time and as it was the main programming language used in my university course, I learnt it extensively. I am experienced in hardware design and implementation using PCBs and microcontrollers and FPGAs.

Experience

NUFFIELD RESEARCH PLACEMENT | JUNE – JULY 2015

- Worked at the University of Surrey on using Focused Ion Beam milling to create micro optical elements and wrote a summary paper at the end of the placement on the characterization of optical elements that approach the diffraction limit.

OXFORD ENGINEERING WORKSHOP | 2015

- A weekend engineering workshop at the University of Oxford where I was given lectures on thermodynamics and fluid mechanics and worked in teams to solve complex problems and learn.

INTRODUCTION TO MANAGEMENT HORIZONS COURSE | 2016

- I achieved a 2.1 in my elective management course, where I learnt about economics, finance and gained in depth knowledge of the processes involved in management from manufacturing to marketing.

UROP AT IMPERIAL COLLEGE | 2018

- During the summer of 2018, I carried out an Undergraduate Research Opportunities Placement (UROP) on the topic of using machine learning to predict energy prices. I used linear and quantile regression to analyze data and use it to predict future energy prices to a certain degree of accuracy.

ENVISION | MARCH 2016 – PRESENT

- Envision is a charity run organization with the aim to encourage young people to fight for change. I along with small team created and successfully pitched a business plan at Burberry headquarters for a social media enterprise entitled “Misrepresentation the Media”. We secured funding for this project and it is still ongoing and can be found on social media.