

# JOSEPHINE LATREILLE

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## EDUCATION

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2015-2019: **Imperial College London - MEng in Design Engineering**, London, United Kingdom  
Expected grade: 1<sup>st</sup> class honours, Year 2 average: 75.7% , modules include maths, computing, big data, mechatronics and robotics, electronics, design, industrial design

- Achieved DESIRE award: Designed the interior of a dual occupancy autonomous vehicle for urban tourism
- 2<sup>nd</sup> year engineering design group project:  
Worked in a team of four to produce design concept and prototypes for a low cost medical device for measuring tidal and residual volume (lung capacity)  
Received feedback that the design showed “excellent consideration of electronics integration”

2004-2015: **French American School of NY**, Mamaroneck, United States of America  
French scientific baccalaureate, specialty in math, with international option, highest honours

## WORK EXPERIENCE

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2017: **Summer intern** with Sport Innovation Challenge project (Imperial College), London (United Kingdom)

- Commissioned by the International Wheelchair and Amputee Sports Federation to collaborate with two students to design a wheelchair fencing training frame for low income countries
- The challenge was to create a competition standard frame that could be manufactured with simple tools and basic training
- Our redesign brought down the cost of a frame from £3000 to less than £100
- Created a physical prototype, full CAD model, assembly and manufacturing videos, and an instruction booklet

2016-2017: **Team member**, Lumilight, London (United Kingdom)

- Collaborated with three Imperial College students to engineer a handbag lamp (concept and prototype)
- Designed, built and refined the electric circuit and enclosing case

2014-Present: **Private tutor** for students in Mathematics, French, and Latin

- Developed sensitivity to the diverse needs of each tutee
- Modified lesson plans to provide targeted help for each tutee

2016: **Summer intern** at Natixis (Group BCPE), Paris (France)

- Carried out compliance controls and investigations to combat money laundering and terrorist financing
- Created a manual for future summer interns and a digital system to track interns' progress which greatly improved productivity and ease of transition between interns

2014: **Summer sales intern**, Lezardons shop, Largentiere, Ardeche (France)

- Designed flyers and window dressings, implemented a system to monitor stock

2013-2015: **Assistant Manager**, Children's Creative Corner, Larchmont (United States of America)

- Created and implemented new art projects on different artists (e.g. van Gogh, Mondrian) to interest young children and teach them new art skills

## INTERESTS AND RESPONSIBILITIES

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2015-Present: **Hockey Club**, Imperial College London (United Kingdom)

- Co-Captain, mixed team (2017-2018), Ladies 2's (2015-Present)

2016-2017: **Design Engineering Society**, Chair, Imperial College London (United Kingdom)

- Led expansion of departmental society to include a wide range of event to increase involvement in the society, strengthen sense of fraternity between students, and broaden students' academic experience

2013-2015: **Rugby varsity team**, French American School of New York (United States of America)

## SKILLS

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**Programming** Python • • • Matlab • • • Arduino • • Qt Designer • •

**2D** Sketching • • Inkscape • • Adobe illustrator • •

**3D** Solidworks • • • Keyshot •

**Making** Wood working • • • Metal working • • Rapid prototyping • • Sewing •

**Languages** French • • • English • • • Spanish • •