

# James Smiths

MECHANICAL ENGINEER



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## Education

### MEng Masters of Engineering

University College London

Sep 2015 - Jun 2019

Second Class Honours (Upper Division)

## Hobbies

3D printed projects

Arduino Projects

Fencing

Chinese Calligraphy

Cooking

## Languages

Spanish



English



Mandarin



German



## Summary

I am a fresh graduate Mechanical Engineer with a passion for solving and designing solutions for different engineering problems. Good at working and collaborating with team members to strive for the best possible results. I am constantly engaged with different projects ranging from engineering to product related builds. I am currently seeking for jobs in an engineering design and problem solving environment.

## Skills

- Proficient in CATIA
- Skilled 3D printer operator (FDM)
- Certificate in SolidWorks (Dassault Systemes)
- Certificate in Pneumatic Technology (SMC)
- Proficient in MATLAB
- Proficient in JAVA
- Proficient with Arduino Controllers

## Relative Experience

### Personal Design Projects

Fully 3D Printed Electric Generator

- Extensive use of CAD for part design
- Extensive Use of rapid prototyping to produce components
- Knowledge in the manufacturing of a 3 phase generator
- Evaluation of performance of current design for future improvements.

Open sourced Swiss Lever Escapement

- Featured Design on thingiverse with high popularity
- Extensive use of CAD and rapid prototyping
- Releasing exploded drawings to aid in assembly for users

### Team Leader of Capstone Project for Master's Degree

The project was to design a robot to compete in a Robot Search and Rescue competition.

- Managing and assigning member's tasks to meet with deadlines
- Identifying and solving problems inherent with the robot
- Extensive use of MATLAB for the analysis and optimization of design

## Current Projects

- Portable wind turbine for generating electricity
- Tesla valve pulse jet