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# ALFIE THOMPSON DESIGN ENGINEER

## PROFILE

I am a design engineer, strongly driven by a love of learning and experimentation. I use data driven, iterative methods, physical models and intuitive decision making to develop problem solving solutions. I take satisfaction in improving my capabilities and I find practical skills help me to ground and apply knowledge I gain from university. I enjoy working in a collaborative team atmosphere as each member can bring their own personality and skills, creating better outcomes. Fundamentally, I take pride in my work and everything I do is to the best of my ability.










## RECENT AWARDS

**The Dean's list** **2018**  
Imperial college london - Design engineering MEng, 2nd year.

**DESIRE Award** **2017**  
Design award achieved by EIDR project.

*"The panel were universally in praise of the whole body of work, but there was also strong agreement on the innovation, depth of work and quality of the human centred design..."*

## SKILLS

Adobe	 Illustrator	Adept
	 Photoshop	Adept
	 Indesign	Adept
	 Premier pro	Familiar
3D / CAD	 Blender	Familiar
	 Fusion 360	Familiar
	 Solidworks	Adept
Coding	 Python	Familiar
	 Matlab	Beginner
Hardware	<b>Metal work</b> Turning   Milling   TIG / MIG welding Forging	
	<b>Wood work</b> Hand work   Machine work	
	<b>Electronics</b> Motor control   system control	
	<b>Rapid prototyping</b> 3D printing   CNC milling	

## INTERESTS



Illustration



Hiking



Painting



CGI



Watch Repair

References available upon request

## DEGREE - MENG

### Dyson school of design engineering | Imperial college London

2016 - present (grad 2020)

Whilst at Imperial, I have worked on a range of projects and developed a broad skill-set. We approach design engineering as problem solving, when the gap between traditional engineering and design is bridged, creating innovative solutions.

Example projects:

#### Self balancing, beat detecting, dancing two wheeled robot | Electronics

- Our team coded a python-driven board with a virtual PID controlled and used audio-inputs to generate a responsive dance to music
- Experience in: Signal and data processing, and motor control

#### People's Pod | EIDR: Emergency Incident Direct Response Vehicle.

- Physical and system design for a flying first-responder vehicle.
- Iterative physical modelling, user testing and UI design.

## EMPLOYMENT HISTORY

### Douglas Instruments | Robotic design and manufacture **2018**

- Designed and tested a new automatic pump system for their robot range.

### Asylum SFX | Model making and SFX company **2016**

- Worked on the fabrication of apparatus for training heart surgeons
- Experience with professional 3d printing, silicon and foam modelling.

### Stone Circle | Stone mason specialising in kitchens **2016**

- Worked through the entire kitchen work surface creation process: from working with client and CAD modelling to CNC milling.

### Hogs-Back Brewery | Small brewery in surrey. **2013 - 2018**

- Part-time work on in-house design of merchandising and branding.
- Part-time work: on-site maintenance and infrastructure development.

## EDUCATION

### Imperial college London **2016 - Present**

#### Design Engineering MEng

- 2nd year final grade 1st
- 1st year final grade 2:1

#### Relevant modules

Electronics | Finite Element analysis | Mechanics | Algorithmic Computing | Physical computing | Mathematics | Design

### Winchester college **2011 - 2016**

#### 3 Pre-U's - [A-level equivalent]

- Art and Design - D2 [A\*] | Mathematics - D3 [A] | Physics - D3 [A]

#### 9 IGCSEs

- 5 A\* grades | 4 A grades

## CLUBS AND ACTIVITIES

### Design Engineering Society

- Attend special guest lecture and innovation workshops.
- Showcased work at society-organised public design exhibitions

### Ballroom Dancing Society

- Organised and promoted lessons of ballroom and latin dances
- Head of society