

# JACK DAVIES

PRODUCT DESIGNER ENGINEER



## CONTACT

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## PERSONAL STATEMENT

My interest in product design & engineering began at a young age; I have always been intrigued by how things work, and I am always taking things apart. This passion has remained and I have gained most of my experience with design and engineering by designing and building a range of products both at university and in my spare time.

I have a deep rooted interest in new technologies and innovations within the design and technology industry. My recent work at 3D Hubs has enabled me to progress my skills in rapid prototyping as well as gain a wide range of business, and project management knowledge.

I am highly motivated and love working with others to achieve a common goal. I embrace change to facilitate better ideas and find solutions to problems.

## EDUCATION

- **BSC (HONS) PRODUCT DESIGN**  
NOTTINGHAM TRENT UNIVERSITY  
Currently achieving a 1st class classification. This course involves a varied program of study, including a strong basis on manufacturing and designing products based upon functionality as a core theme. Experience of live projects from industry set briefs, and working in teams to deliver a professional project.
- **A LEVEL RESULTS**  
CHESLYN HAY HIGH SCHOOL  
Media Studies - B  
Product Design - C  
Business - D  
AS Art & Design - D
- **GCSE RESULTS - 10 A\* - B**  
CHESLYN HAY HIGH SCHOOL

## WORK EXPERIENCE

- **3D HUBS**  
3D Printing Expert  
Internship year during my degree. I worked on many projects including customer support, company CAD training, writing technical articles, designing and building a portable printer enclosure and managing a project with HP to design and manufacture an electric skateboard.  
October 2016 - August 2017
- **UNDERGROUND ENGINEERING**  
Director  
Technology startup company that I founded. Projects involve 3D printer design, electric personal transportation components and consumer products. [undergroundengineering.co.uk](http://undergroundengineering.co.uk)  
July 2015 - Present
- **NOTTINGHAM TRENT UNIVERSITY**  
BSc Product Design Student Ambassador  
Varied role working to promote the university, involves team work and fast problem solving skills.  
September 2015 - Present
- **KHM SOUND & LIGHTING / NOMAD COMPUTERS**  
Computer, sound and lighting repair technician.  
This role involved the repair of consumer electronics and computing equipment involving troubleshooting and software and hardware repair including SMD soldering and assembly replacement.  
April 2013 - September 2014

## SKILLS

TEAM WORK	● ● ● ● ● ● ● ●
SELF MOTIVATED	● ● ● ● ● ● ● ●
PROBLEM SOLVING	● ● ● ● ● ● ● ●
CAD	● ● ● ● ● ● ● ●
MANUFACTURE	● ● ● ● ● ● ● ●
DESIGN ANALYSIS	● ● ● ● ● ● ● ●
PROGRAMMING	● ● ● ● ● ● ● ●
ELECTRONICS	● ● ● ● ● ● ● ●

## ABILITIES

- Certified Mechanical Design Associate (C-BAVAGRY7TA) in Solidworks, experience including FEA, plastic mould design & sheet metal as well as extensive part and assembly modelling. Also a high level of expertise in Fusion 360, Inventor, AutoCad, Keyshot & Adobe CC.
- Electronic engineering skills and expertise in Eagle CAD and Altium Designer with PCB layout and schematic design. Experience with micro controllers, especially Arduino.
- Prototyping and model making skills including embedded electronics, design for manufacture and assembly design.
- Strong interest in making and building. I have completed a number of personal projects including a scratch built 3D printer, CNC router, flying drones and an electric skateboard. See my website for examples of my work at [jackdavies.co](http://jackdavies.co)
- I am a member of the Firepick development team which is an open source project which aims to build a pick and place and 3D printer in one unit. [delta.firepick.org](http://delta.firepick.org)
- Experience of rapid prototyping and 3D printing technologies, including design of 3D printer hardware and operation of a professional print lab.