

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
Graduated with a 1st class classification.
BSc course involving 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

- AUTODESK**
Fusion 360 CAD Specialist
Promoting Fusion 360 among student and professional users. Responsibilities include teaching advanced CAD skills to engineers, producing technical material and project planning.
October 2017 - Present
- 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**
Founder
Technology startup company that I founded. Projects involve 3D printer design, electric personal transportation components and consumer products.
July 2015 - Present
- NOTTINGHAM TRENT UNIVERSITY**
BSc Product Design Student Ambassador
Varied role working to promote the university, involving team work and quick problem solving skills.
September 2015 - Present

SKILLS

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

ABILITIES

- Certified Mechanical Design Associate (C-BAVAGRY7TA) in Solidworks, Fusion 360 extensive experience including FEA, plastic mould design & sheet metal as well as extensive part and assembly modelling. Also a high level of expertise in 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, Python and C scripting, design for manufacture and assembly design. Experience producing manufacturing drawings, with weld symbols and full GD&T.
- Strong interest in making and building. I have completed a number of personal projects including scratch built 3D printers, CNC router, racing drones and electric skateboards. See my website for examples of my work at jackdavies.co
- Experience operating industrial machinery including Haas CNC machines, manual and CNC lathes and mills, FLOW water-jet and plasma cutters as well as injection moulding and tool design.
- Experience of rapid prototyping and 3D printing technologies, including design of 3D printer hardware and operation of a professional print lab.