

George King

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24 South Avenue, Bath, BA2 3PY

EDUCATION

University of Bath

2019 - 2024

MEng (Hons) Aerospace Engineering

Year 1 average: 72.6% - 1st

Mathematics 1: **80%**

Mathematics 2: **99%**

Design, Materials and Manufacturing 1: **72%**

Design, Materials and Manufacturing 2: **72%**

Solid Mechanics 1: **68%**

Solid Mechanics 2: **84%**

Thermodynamics: **70%**

Fluid Mechanics: **81%**

Experimentation and applied engineering: **73%**

Instrumentation & Electronics: **80%**

Lawrence Sheriff School

2012 – 2019

A-Levels:

Mathematics: **A***

GCSEs:

12 GCSEs, with 10 A*/A grades.

Further Mathematics: **A**

Physics: **A***

Chemistry: **C**

ENGINEERING EXPERIENCE

First Year Experience

September 2019 – May 2020

- Designed and produced technical drawings of a two-speed gearbox from an initial design specification.
- Introduced and developed practical skills in labs such as using milling machines and lathes, which gave an appreciation for the constraints and feasibility of certain designs.

First Year Engineering Project

March 2020 – May 2020

- Worked as a member of a small group in which a mechanical vehicle which would lay down cones on a road was designed according to an assigned specification. This project required strong organizational and time management skills, as well as the use of CAD software.

Engine Developments Ltd. (Judd)

July 2017

Internship

Rugby

- Experienced professional use of CAD in designing specialized engine parts for high end clients.
- Hands-on experience of high-performance engine disassembly and repair
- Given responsibility for testing a customer's engine performance in a dyno and mapping out wires in an unknown engine harness.

Autonomous Self-Driving Robot Project

2017

- Used a broken remote-control toy car chassis and motors with a Raspberry Pi, ultrasonic sensor, and home-built motor controller board to create a self-driving robot.
- Created code using Python in which the robot would avoid obstacles and turn around if stuck against a wall or in a corner.
- Later redeveloped to use an Arduino.

3-Axis CNC Demo

2017

- Used stepper motors from broken printers and DVD drives, with a motor controller board and a Raspberry Pi

to create a proof-of-concept mini three-axis CNC system.

WORK EXPERIENCE

Tutoring

Summer 2020

- Tutored a GCSE student in mathematics and combined sciences.

Independent Contractor (Appen)

September 2019 – December 2019

Social Media Evaluator

- Evaluated online advertisements according to stringent guidelines, as a part-time contractor for a large social media company.

The George Pub

Late 2017 – Summer 2018

Pub Staff

- Worked as part of a small and successful team running a pub, restaurant, and bar.
- Experience with waiting, front of house, and card payment systems.

Barby Village Store

2014 - 2017

Shop Assistant

- General shop assistant role.

SKILLS & INTERESTS

- **Programming languages:**
 - Strong with **Python, TeX, GdScript**
 - Basic understanding of **HTML, MATLAB, GML**
- **Computer Software:**
 - Competent with **Excel, Photoshop, Autodesk Inventor, Inkscape** and **Fusion360**
 - Highly competent with **Word, PowerPoint**
- **App Development:**
 - Have experience in developing and publishing mobile games to Google Play, using the open-source **Godot IDE**
- **Hobbies**
 - Keen interest in the gym and recreational weightlifting
 - Actively trade and invest in the stock market
 - Build and modify desktop PCs
- **Driving License:**
 - Holder of a valid UK driver's license