Ishaan Kadam

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Education

University of Bath **Sep 2023 – July 2026**
BEng (Hons) Computer Systems Engineering - Predicted 1st Class
First Year Average: 74% (With 82% achieved in Engineering Design and Practice Module)
Second Year Average: 77% (With 80% achieved in Engineering Design and Practice Module)

Salesian's Sixth Form College, Chertsey - A Levels **Sep 2021 – July 2023**
Maths, Computer Science, Physics, EPQ

The Matthew Arnold School, Staines - GCSEs **Sep 2016 – July 2021**
10 GCSE's (8–6) including Maths, English, Physics and Computer Science

Engineering Projects

Neural Spikes Analysis ML Project

- Designed and trained a neural network based ML model to sort through electronic noise, detect spikes and classify them depending on what neuron caused them.
- Utilised tools such as TensorFlow, Python and MATLAB to develop, test and evaluate the models.
- Implemented version control to ensure back ups of code.

Smart Thermostat Group Project

- Designed and assembled a multi-layer PCB for a smart thermostat, integrating temperature sensors, user interface controls and wireless connectivity.
- Led this project to gain crucial leadership skills.
- Enhanced workflow communication between design and manufacturing to reduce errors, align deliverables and adherence to design-for-manufacturing guidelines.

Remote Controlled Car Project

- Constructed a remote-controlled car using parts such as 4 motors, microcontrollers, joysticks, sensors and Bluetooth modules.
- Implemented features such as motor control, input integration, sensor integration, wireless communication using Bluetooth.

Work Experience

Lead Electrical Engineer, Team Bath Drones, Bath **Sep 2025 – Present**

- Lead electrical engineer, tasked with designing, simulating and manufacturing the automation system, developing the electronics for the payload release mechanism.
- Tasked with creating a remote controller enabling full manual control of the drone, in case of emergencies.
- Mentoring younger years to ensure they are equipped with skills to take over the role..

Senior Sensor Engineer, Team Bath Prosthetics, Bath **Sep 2025 – Present**

- Researched and integrated sensor technologies to enhance prosthetic hand functionality.
- Researched various signal processing methods to translate inputs into clear, intuitive sensory feedback.
- Mentoring younger years on signal processing and sensor integration techniques.

Digital Designer, TheLabTutor, Staines-Upon-Thames **Sep 2025 – Oct 2025**

- Collaborated with a local tutoring business to design and build a fully functional website for them.
- Created wireframes and interactive prototypes with Figma, and implemented final design using HTML, CSS,and JavaScript.
- Strengthened front-end and responsive design expertise while improving UX and content delivery.

Summer Intern, Cloudville Ltd, Staines-Upon-Thames   June 2023 – Sep 2023

○ Worked with the IT department, successfully delivering a major IT project on time and within budget.
○ Played a key role in testing and ensuring all website components functioned as intended.

▬▬▬ Skills

| **Control Engineering** | **Sensor Integration** | **Avionics & Automation Systems** | **RF Electronics & Wireless Communications** | **Data Processing** | **Circuit Design (KiCad & OrCad)** | **Circuit Analysis (LTSpice & AWR)** | **Data Analysis (MATLAB & Python)** | **Attention To Detail** | **Technical Reporting & Documentation** | **Inter-disciplinary Collaboration** | **Adaptability & Communication** | **Responsive Web Design (HTML & CSS)** |

▬▬▬ Interests & Achievements

Kickboxing Black Belt 1st Dan

○ Demonstrated resilience and discipline through intense training and gradings.

Cricket Team Member

○ Represented University of Bath in competitive leagues, building teamwork and discipline.

Kickboxing Assistant Coach

○ Coached younger children to compete in various competitions developing communication and coaching skills.