

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

RF Beamforming Telemetry & Tracking System

- Designed and simulated a multistage front-end and beamforming architecture for drone telemetry and tracking applications.
- Developed RF subsystems including patch antenna arrays, couplers, phase shifters, and various other subsections.
- Performed electromagnetic and circuit level simulations using AWR and HFSS to evaluate gain, radiation patterns and system performance.

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.
- Developed RF enabled control and communication architectures to ensure system reliability and failsafe operation
- 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

| RF Electronics | Antenna Design and Beamforming | 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.