

Nagim Ibragimov

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Education

King's college London: (2022-2025)

(BEng) Electronic engineering

Expected 1st Honours

(MSc) Robotics (2025-2026)

Caterham School 2016-2022

I am an ambitious student with a strong passion for engineering. **I am eager to apply my skills, contribute to innovative projects, and gain valuable industry experience while continuing to grow as an engineer.**

Work Experience

June 2024 - August 2024

Hanson Robotics (Sophia The robot)

- Built and optimised Sophia's eye-tracking system using Python, ROS, and Linux; added predictive tracking using body cam data and distance estimation.
- Supported robot hardware setup, wiring, and troubleshooting; managed code via Hanson Robotics' private GitHub.

Research

September 2024 - April 2025

Automated Human Behaviour in Dyadic Interactions

(King's College London | Python, MediaPipe, OpenCV)

- Triangulated 3D hand keypoints from multi-camera input to capture precise hand motion in 3D space.
- Linked hands to individuals using pose landmarks for consistent identity tracking across views.

Projects

January 2025 - April 2025

Logic Unit (ALU) on FPGA using Structural VHDL (Vivado)

- Designed and implemented a 6-bit ALU in structural VHDL and deployed it on a Basys3 FPGA.
 - Verified functionality through simulation and analysed resource usage using Vivado tools.
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Biomimetic Mars Rover Design and Collaborative Engineering Project September 2023 - January 2024

- Collaboratively developed control systems for a Mars rover and helped design a bio-inspired gripper for enhanced performance.
 - Worked closely with cross-functional teams to support construction and system integration.
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Arduino-Controlled Robotic Arm Development and Circuit Design Project September 2022-January 2023

- Programmed Arduino Uno in C using direct register manipulation to control a robotic arm.
 - Designed and built control circuitry on a breadboard using datasheet-guided specifications.
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Skills and Interest

- Languages:
Proficient in English (IELTS 8)
- Skills:
 1. programming: C, Python, Matlab, Simulink, ROS, Git, Linux, Vivado (VHDL).
 2. Applications: Fusion360, (LTspice/scopy), WordDocument, PPT, Canva.
 3. Organisational: planning, time management, attention to details.
 4. Interpersonal: Team work, communication, field hockey(King's Men's one's), coding, chess, physical activities.
 5. Cybersecurity: have understanding in topics, (network scanning, Initial access attacks, Exploit known vulnerabilities in network services, Social engineering, Beyond DMZ)