

Nagim Ibragimov

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EDUCATION

King's College London <i>MSc Robotics</i>	2025 – 2026 (Current) London, UK
King's College London <i>BEng Electronic & Electrical Engineering</i>	2022 – 2025 London, UK

EXPERIENCE

Hanson Robotics (Sophia the Robot) <i>Robotics / Software Engineering Intern</i>	June 2024 – August 2024 Hong Kong (Hybrid/On-site)
<ul style="list-style-type: none">Built and optimised Sophias eye-tracking system using Python, ROS, and Linux for robust human tracking.Added predictive tracking using body-camera data and distance estimation to stabilise gaze under motion and occlusion.	
King's College London <i>Research Assistant (Automated Human Behaviour in Dyadic Interactions)</i>	September 2024 – April 2025 London, UK
<ul style="list-style-type: none">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.Implemented a way with Python, MediaPipe, and OpenCV; emphasised reproducibility and robust preprocessing.	

PROJECTS

FPGA Arithmetic Logic Unit (ALU) — Structural VHDL (Vivado)	January 2025 – April 2025
<ul style="list-style-type: none">Designed and implemented a 6-bit ALU in structural VHDL; deployed and validated on a Basys3 FPGA.Verified functionality through simulation and analysed resource usage/timing using Vivado toolchain.	
Machine Learning: Logistic Regression & Neural Networks (from Scratch)	2025
<ul style="list-style-type: none">Implemented logistic regression with gradient descent and a two-layer neural network with ReLU and sigmoid activations from scratch using NumPy.Derived and implemented cross-entropy loss and full backpropagation for end-to-end model training and evaluation.	
Biomimetic Mars Rover & Bio-inspired Gripper (Team Project)	September 2023 – January 2024
<ul style="list-style-type: none">Contributed to rover control-system development and helped design a bio-inspired gripper for improved grasping performance.Worked with cross-functional teammates to support build, integration, and test iterations under schedule constraints.	

SKILLS

Programming & Software: C, Python, MATLAB, Simulink, ROS, Git, Linux

Robotics & AI: Robot Kinematics, Motion Planning, Computer Vision, Machine Learning, Optimisation, MuJoCo Simulation, Sensor Systems

Hardware & Embedded Systems: FPGA Development, Vivado (VHDL), Digital Logic Design, Electronic Circuits, Integrated Circuits, Embedded Systems

Design & Engineering Tools: Fusion 360, LTspice/Scopy, LaTeX/Overleaf, flow5, openVSP