

proving ground for students who want to create and change the world. Electrification of transportation system is here, the combination of electric powertrain and traditional mechanical system has made this competition attractive to lots of industries leading to companys' attention and support. This competition jump starts our students' knowledge and skills set for their future career. HKU Racing is the first team from Hong Kong to compete in Formula Student (European series).

[SIG – Quantum Bit Demonstrator](#)

The world is currently in the midst of a second-quantum revolution, which will see the counter intuitive properties of quantum systems such as superposition and entanglement, being applied for commercial technologies such as quantum computing, quantum sensing, and quantum communications. Quantum Computing is mostly taught to undergraduates in a classroom focusing mostly on theoretical and mathematical concepts with minimal laboratory components. This is primarily because research laboratories working in quantum science are too expensive, bulky, and complicated to be used for undergraduate teaching purposes. We wish to bridge that gap by building a compact, user-friendly, interactive setup to introduce quantum physics to a younger non-expert audience. The goal of the project is to create a curriculum for quantum technology, a sustainable education model, with an in-class demonstration kit for quantum science education.

[SIG – Engineering and Archaeology](#)

We are forming a new interest group at the Innovation Wing, as a collaboration with humanities and educational researchers at HKU.

In this group, we plan to pursue several interdisciplinary projects that will improve the ways we can study and teach about the human past. Our projects will include uses of augmented and virtual reality in recording, teaching, and presenting archaeological sites. We are also studying the use of machine learning and computer vision for several purposes to study visual datasets such as satellite images of ancient landscapes. We work with a field project that travels to Armenia each summer to excavate. We welcome anyone who would like to join our team, from any Faculty. We especially invite engineers and computer scientists, but we also have many other projects which anyone with an interest can join.

Let's learn about the human past together! Thank you!

[SIG – HKU Astar \(formerly RoboMaster ICRA AI Challenge\)](#)

HKU Astar is a student group who participates in Robomaster University AI Challenge Competition. Robomaster University AI Challenge is an AI-based robotics competition for university students held by DJI and IEEE International Conference on Robotics and Automation. It emphasizes on writing AI algorithms and tuning and choosing and training machine learning models to power pure automatic robots to accomplish complex goals like building maps, avoiding collision and tracking. Our team aims to build AI Robot tuples that can work purely automatically. Implementing and design decision policies according to competition requirements. Training AI networks to recognize and track objects. Implement localization and motion planning on robots under uncertainty.