CASE STUDY

City of Glasgow College and Altitude Thinking Ltd.

Designed by Altitude Thinking Ltd., with the support of City of Glasgow College, the Aquabot is a remote-controlled aquatic vehicle which can monitor and assess water quality in real time.

The project stemmed from an idea proposed by Dale Colley, a former student of the college, aiming to address the critical need for environmental monitoring and water quality management. City of Glasgow College played a pivotal role in transforming the Aquabot concept into a fully operational product. This was achieved through a combination of technical expertise, funding assistance and strategic partnerships.

City of Glasgow College helped Colley secure an initial £5,000 innovation voucher from Interface, an organisation that connects businesses with academic expertise, in Scotland. This initial funding was used to build a prototype of the Aquabot, allowing Colley to test the feasibility of the concept. With its curriculum expertise in nautical engineering and maritime studies, the college was well-positioned to support the technical development of this device.

Following the success of the first prototype, City of Glasow College facilitated a partnership with CENSIS, Scotland's innovation centre for sensing, imaging and Internet of Things (IoT) technologies. This collaboration resulted in an additional £35,000 in funding for the development of an advanced prototype incorporating IoT technology. The upgraded version allows real-time data transmission, significantly improving the Aquabot's capability for live monitoring, and broadening its potential applications across a range of industries and environments.

The success of the Aquabot project highlights the City of Glasgow College's ability to act as a bridge between academic expertise and practical application. By combining technical guidance and access to innovation networks, the College facilitated the journey from ideation to implementation.