



The 2018 International Underwater Robotics Champions from Macau Anglican College were invited to display their work at the “Unseen Oceans” exhibition hosted by the Macau Science Centre during March to September 2021.

The exhibition highlighted their 2018 International Champion ROV (Remotely Operated Vehicle), Blazin’ Hydra. The robot, featuring a fully 3D printed frame plus custom electronics design was conceived and constructed entirely by the MAC student team members.

The team received multiple major awards during the 2018 international competition, which included: Best Product Demonstration, Best Technical Presentation and Best Engineering Documentation, but their crowning achievement was being chosen as the Overall Champions of the competition. It was a well deserved and gratifying moment of triumph for the team that had sacrificed many hours after school every week to commit and dedicate themselves to prepare for the competition.

“Visitors to the exhibition are able to pilot the ROV via its simulator, which was designed and programmed by F6 student Ricky Vu. The simulator allows visitors to control Blazin’ Hydra to perform various simulated coral recovery tasks,” explained lead robotics instructor, Mr Andy Tsui.

There is also work by F5 student Isaac Sin, demonstrating his custom designed electronics together with the deconstruction of a typical hobby grade underwater thruster, which is the most important component on an ROV as it facilitates the machine’s propulsion in water.

According to Mr Andy Tsui, “The exhibition is a wonderful opportunity for our students to gain public recognition for their efforts in the field of robotics. It is also an opportunity for people to come and see what a remote-controlled underwater machine looks like and how it is operated.”

The exhibition will run until 26 September 2021.