

University Veracruzana

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The company Halcones UV located at the Faculty of Engineering of the Universidad Veracruzana has the honor to present to you our product which is an ROV, which we decided to call Seahawk, which lie well offer. Halcones UV is a company that is in the state of Veracruz in the South Central region of the state in the city of Veracruz within the Universidad Veracruzana.



This project was started by three students of the career of mechanical Ingenieria (Adan Celis Manolo Flores, Angel Alberto Gonzales Hernandez and Arturo Vera Rodolfo Herrera) and posteriormete joined the team 5 members more. The entire team consists of students from the Universidad Veracruzana Ingenieria.

The ROV has a rectangular structure entirely made of PVC pipes which helps its practicality, handling, simplicity and economy in terms of its construction, which coupled with the qualities offered by the PVC helps handling improving stability and buoyancy, within this structure are assembled 4 engines that give movement to the ROV which we control through chambers built into the ROV to a console, this module gives us the ability to visualize the environment in which it is the Seahawk and control their movements through the joystick, also control the intensity of the luminescence of the lights which is adapted ROV and manipulation of objects by a claw, driven by a servo motor which also is mounted to the same structure, a bilge pump is responsible for absorbing fluids will be taken for the purpose of analyzing and determining their qualities, all to reduce the spending power required.

The goal of our company is to design a product that cost is not very high without neglecting the benefit and product quality, so that our client has qualities that are always important and very taken into account a product cost-benefit , exceeding quality expectations. Seahawk has the benefit of being made from PVC, do not wait long to manipulate, taking just 2880 hours for all team members and a total cost of 2909.5 dollars.

Within the policies of our company's main aim it is to achieve teamwork which is multidiciplinar.

Our path to reach this competition has not been easy, cost much work to get the funds to travel a distance of over 1500 km away.