

## **Biography of Zeabus AUV**

Due to more demanding energy and wider ranges of operations, domestic development of subsea technologies to support local oil and gas industries gain more significant and necessary to Thailand. Based on this need, in 2013, Kasetsart University (KU) established a research and development program for Remotely Operated Vehicle (ROV) and Autonomous Underwater Vehicle (AUV) to develop in-house technologies with PTTEP as the main sponsor.

According to this program, students who are interested in this topic have formed a team to participate in Robosub since 2014. The goal of this participation is to encourage students to learn and understand AUV technologies from practical environment through the competition so that they can use their experiences for further upstream research and development. Additionally, students must face real-world problem-solving and teamwork environment. In our first competition, our team, named SKUBA, reached the semi-final round and get the 18<sup>th</sup> rank.

Zeabus has been our name since 2015. We use this name for both our team and our AUV. In Robosub 2016, students from Chulalongkorn University joined our team forming a powerful group. That year, we achieved the fifth world ranking from the competition.

This year, we form a multi-disciplinary team consisting students from Aerospace Engineering, Electrical Engineering, and Computer Engineering. Our Zeabus AUV is evolved in several considerable factors such as faster operation, greater precision, and easier to maintenance. Our team is organized into 4 groups: mechanical, electrical, software, and sensor group in which each student can select based on individual expertise. Moreover, most of the team members has gained reminiscent first-time experience by participating the AUV competition named SAUVC in Singapore. Obviously, we are very excited to do our best in Robosub 2018.