

Project Bumblebee

An Executive Summary



The Challenge at Hand

Today's modern-day design and engineering challenges, e.g. autonomous vehicles, advanced robotics, intelligent systems, are increasingly complex and interdisciplinary. Our next generation of engineering leaders and technology innovators require not only depth of engineering expertise, but also agility of mind and soft skills to work in multidisciplinary teams. It is imperative to provide our passionate undergraduates a comprehensive and structured platform for the necessary team-based experiential learning.



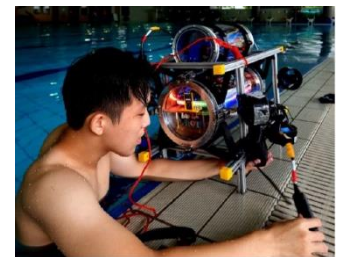
Our Unique Advantage



Our College of Design and Engineering (CDE) is uniquely positioned with the range of technical expertise and strength of commitment to deliver the mission of interdisciplinary and experiential education. Our Engineering Design and Innovation Centre (EDIC) in particular has a successful track record of partnering across the university ecosystem to deliver holistic design and engineering training via the Innovation & Design Programme (iDP) and other educational initiatives.

Impact Proposition

Project Bumblebee (<https://cde.nus.edu.sg/edic/projects/competitions/bumblebee/>) is one of EDIC's signature interdisciplinary and experiential learning programmes. Each year, our multidisciplinary student team participates in 3 global competitions: RoboSub (<https://robonation.org/programs/robosub/>), RobotX Maritime Challenge (<https://robonation.org/programs/robotx/>), and Singapore AUV Challenge (<https://sauvc.org/>), where they design and build autonomous underwater vehicular systems capable of performing complex tasks in maritime operating environments to compete with other world-class academic teams.



With generous support from corporate sponsors, Team Bumblebee has been performing meaningfully on the global stage since 2012. It has grown into a passionate team of 40 undergraduates from across CDE, School of Computing and Business School, where seniors and alumni guide juniors in this tight-knit community. We sincerely invite you to be a part of this family where aspiring engineers graduate with an aptitude and confidence of performing in diverse teams. An **endowed gift of S\$5M** would go a long way to leave a legacy for future generations of Team Bumblebee.