



TEAM BIO

VantTec is Mexico's *Tec de Monterrey* Unmanned Autonomous Systems research and competition group. The team started on February 2017 in order to compete in the international competition *RoboBoat*. Since then, the team has participated in university's internal expositions such as *Conexión Tec*, and on the international entrepreneurial congress *INCmty*, representing the School of Science and Engineering. Even though the team started with 10 members, this year we increased the number to around 30 members, including professors and new students excited to work on this kind of technology. We are a multidisciplinary team, including students on fields like Mechatronics, Mechanical Engineering, Digital Systems, and Computer Science. Our graduated members are still working on related areas, such as computer vision and software development. On the other hand, first members still studying are landing internships and developing the team's technology along with newer members. The team's technology consists on the development of computer vision algorithms with both OpenCV and machine learning tools, mechanical design and manufacture, mapping, path planning and control algorithms, and Android applications for the UAV control. We are currently only working on unmanned surface vehicles of our design and the commercial DJI Phantom IV, but we are looking forward to expand to other kind of vehicles such as ground vehicles and aerial vehicles of our own design.