

Community & Outreach — All Blue (Universidade de Brasília)

All Blue is the autonomous underwater vehicle team of the University of Brasília (UnB). Alongside our technical development, we maintain an active outreach program aimed at sharing knowledge and expanding access to science and engineering beyond the university environment.

Our first major public engagement was at Campus Party Brasília, one of the largest technology events in the country, where we exhibited our AUV and introduced submarine robotics to a broad and diverse audience, including many young students with no prior contact with the field.

We also participated in InovaSummit, an event focused on entrepreneurship and innovation that brings together startups, investors, and research institutions. The experience pushed us to present our project from a more strategic perspective, connecting our technical work to real-world applications and market context. Shortly after, at Festival Curicaca, a science and technology fair with a strong emphasis on the relationship between universities and society, we showcased the fully operational Peixonauta and walked visitors through the team's development process from early prototyping to a competition-ready vehicle.

We were later invited by the Brazilian Navy to participate in ARAMUSS, a national event on unmanned systems held at the Naval Base of Aratu in Bahia. The invitation represented an institutional recognition of the team's work and allowed us to engage in high-level technical exchanges with defense organizations and industry players such as Embraer.

One of our most meaningful initiatives was a technical mentorship at a public elementary school in Paranoá, one of Brasília's most underserved communities. Working with a local teacher, our members guided 8 students through the design and prototyping of a water quality monitoring buoy and an IoT-based monitoring system using Arduino modules. The students entered the First Lego League robotics tournament and won first place in their category.

At UnB's University Week, we offered a hands-on PCB design course using Autodesk Fusion 360, which reached full capacity and covered CAD/ECAD workflows drawn directly from our AUV development process.

More recently, we presented our project to incoming Design students with a live demonstration of the Peixonauta's Mission Control interface, which led to a new recruitment process for our communications division. At Acelera Campus, an entrepreneurship and innovation event hosted at UnB, we displayed both of our AUV models and introduced visitors to the concept of autonomous underwater vehicles, using RoboSub as a central reference point.

These activities reflect our ongoing commitment to making the work we develop at the university accessible and relevant to the community around us.