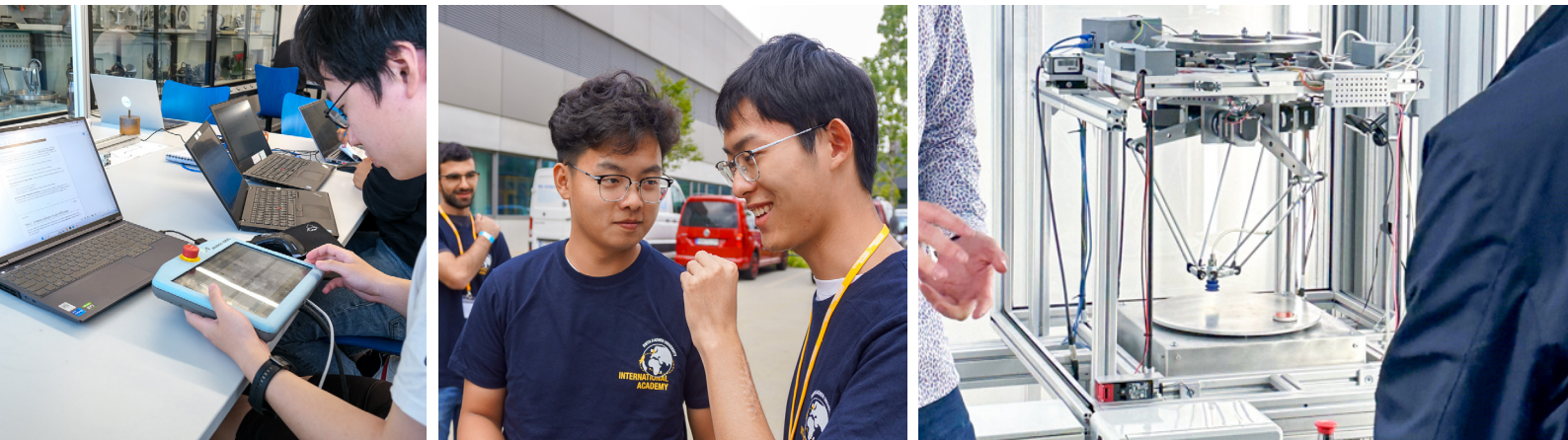


# Robot Operating Systems Essentials

Build and control your own Delta Robot!



## Expect these Contents

Dive into the fascinating world of robotics, where you'll embark on a hands-on journey to build and control your very own delta robot. This course offers a comprehensive exploration of delta robot kinematics, assembly, and control mechanisms, including an introduction to the Robot Operating System (ROS), a crucial tool in modern robotics. From the fundamentals of robot construction to advanced control using both Arduino and ROS, you'll learn through practical, project-based sessions that culminate in a live demonstration of your robot.

- ▶ Understand delta robot kinematics and control principles
- ▶ Learn the delta robot building process, including material and component selection
- ▶ Program the delta robot using Arduino for task execution
- ▶ Debug and optimize robot performance for complex task execution

## Quick Facts

### Your Summer School at a glance

	August 11 - 24, 2024 (2 weeks)		3,990 €
	On campus		Mentoring and Supporting Program
	RWTH Certificate with 3 ECTS (approx. 75 hours)		Accommodation included

## Turn the theory into your own fully functional robot!

Gain new insights into robot design and control. You will build your own Delta Robot, which you can even take home with you at the end! Learn first-hand from industry experts and expand your own network!

