CONTROLS

What does Controls do?

In Formula Student, performance on track depends not only on mechanical design but also on how the vehicle's behavior is controlled. Controls focuses on understanding, modeling, and improving the car's dynamics.

We develop systems such as torque vectoring and traction control, build vehicle dynamics models, and validate our concepts through simulation and real-world testing before implementing them on the car. By combining theory, software, and track data, we continuously refine the vehicle's performance.

If you enjoy working with dynamic systems, simulations, and turning theory into real performance on track, this is the place for you!

APPLY HERE!

Your Tasks:

- Model vehicle dynamics
- Integrate and fuse sensors
- Simulate systems in MATLAB/Simulink
- Implement vehicle dynamics control

Requirements:

- Preferably studying Electrical Engineering and Computer Science
- Confident in using MATLAB/Simulink and Pyhton
- Interest in Control models, Vehicle Dynamics and Simulation
- Very good English communication skills
- Strong teamwork and collaboration abilities
- Independent, structured, and reliable working style
- Commitment and enthusiasm for the project