



Probotics Workshop

Remote Controlled Robot

Unlike any other session, you'll be working in a team with Protons from both tracks! You'll work together to create a remote controlled robot.

The **Robotics Protons** will work on the robot itself, and write code on the Arduino to receive data from a laptop via a Bluetooth module to move, as well as send data from the sensor.

As for the **Programming Protons**, you'll need to create a GUI program to control the robot, it should have:

- Controls for movement (in addition to buttons, make it controllable via keyboard as well)
- Controls for the arm
- Speed control
- Display sensor reading
- Any other features you could think of

You'll pair to the bluetooth module via your laptop, and communicate with it with **pyserial**. You'll find the Bluetooth module's port in the settings.

After you're done with all that, add an option to control the robot movement with hand gestures using **OpenCV**.