



# Robo-Knights FTC Team 9930

Robot Set-Up  
With Old Stuff  
(HiTechnic Controllers)

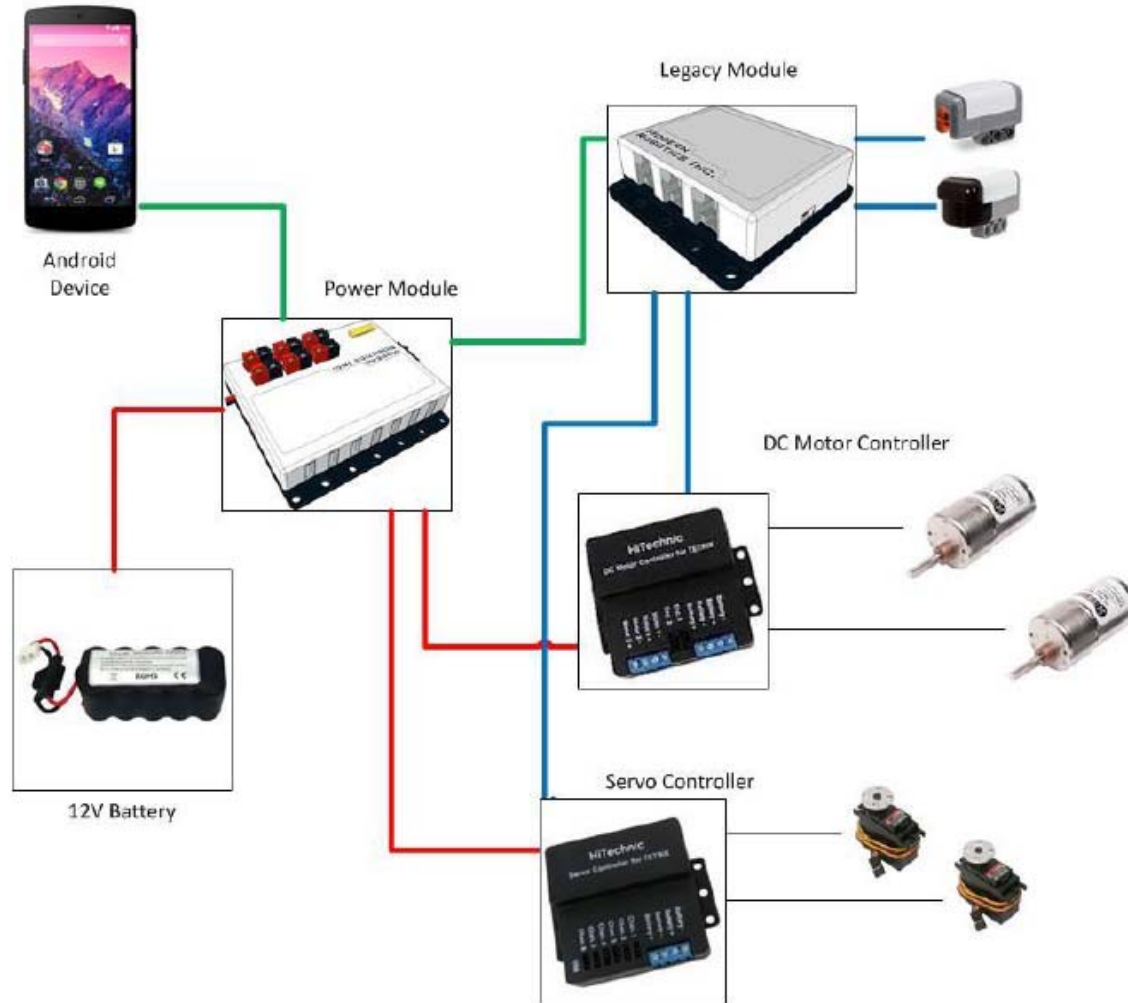
# Agenda

- Phone Set-Up
- Wiring your Robot
- Code Templates
  - Tele-Op
  - Autonomous

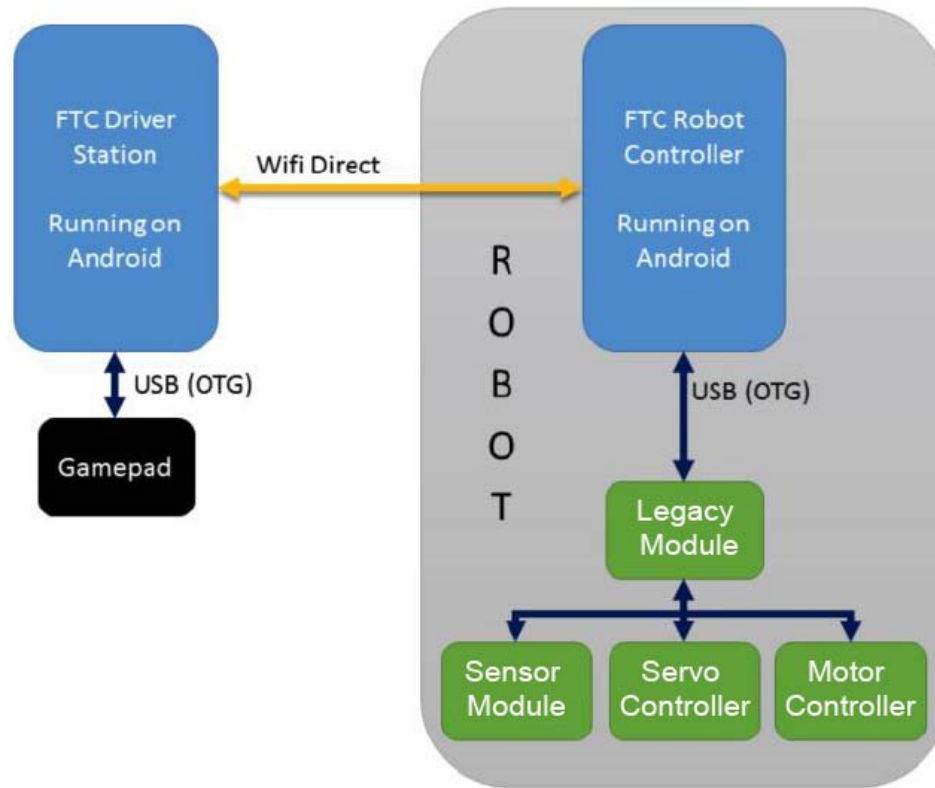
# Phone Set-Up

- We will follow this video
- <https://www.youtube.com/watch?v=n597U6rcl2Y>
- Renaming the ZTE Speed
  - Android **Settings** menu again and click on the **Wi-Fi** item to launch the Wi-Fi Settings screen.
  - Select the Wi-Fi Direct
  - Click on the RENAME DEVICE
  - FTC Team number and –RC (9930-RC)
  - FTC Team number and –DS (9930-DS)
- Download the Apps
- Turn off the Wi-Fi connection

# Wiring your Robot



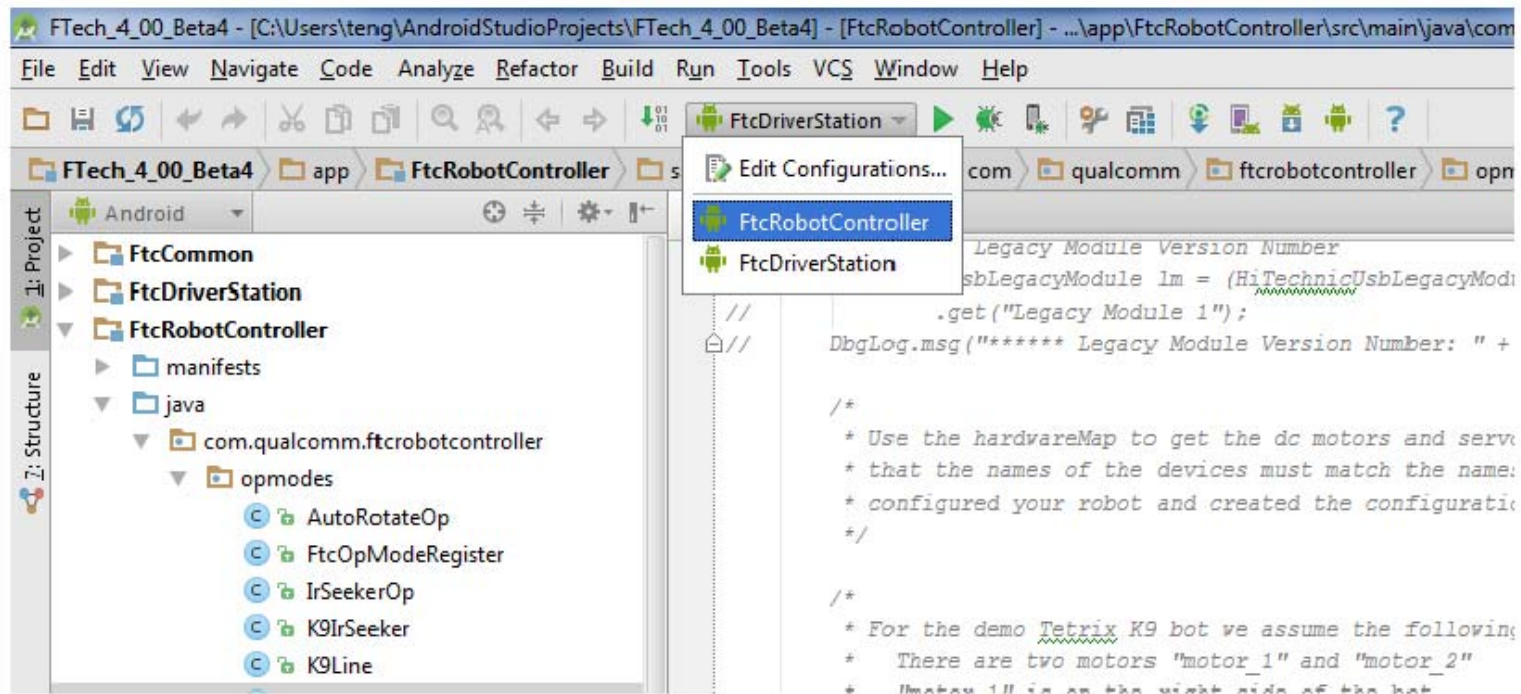
# Wiring your Robot



# Wiring your Robot

- Use **WAGO** to distribute power from the **Power Module**
  - Mitigates need for multiple Power Pole cables
  - Mitigate soldering wires
- Data cables with the RJ12 connectors
  - One for each Motor /Servo Controller or sensor
  - NO daisy chaining
- Motor Controller to the Wheels
  - Motor 1 – Right
  - Motor 2 – Left
- Hand Draw and label your robot wire configuration
- Manual Configuration for your Robot
  - May need to avoid S0 and S1

# Code Templates



# Code Templates

- Android Studio
  - Well supported
  - Many tutorials
  - Stable and controllable
- FtcRobotController
  - Java
    - OpModes
- Start a new OpMode
  - Right Click – Copy – Paste – Rename
- TeleOp
- Autonomous – Time Based / State