

FRC YAZILIMCISININ EL KİTABI

içerik

• Giriş:

WPILib Kavramı - Tarihi - Java ve C++

Toollar:

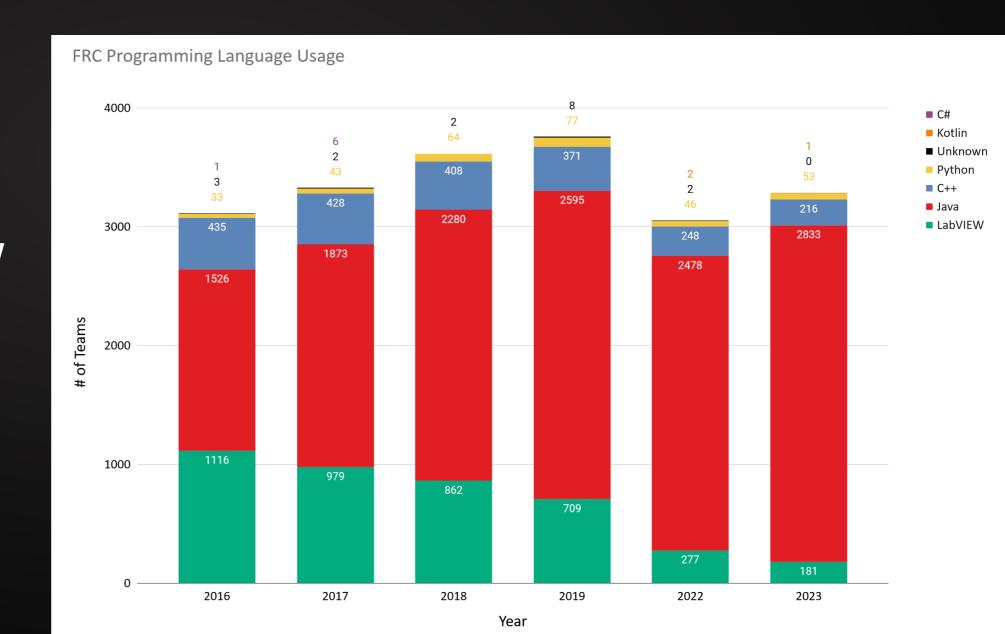
WPILib IDE - REV Client - Phoenix Tuner - NI - Driver Station - Git

• Programlamak:

Proje Oluşturma - Dependency - Coding Session

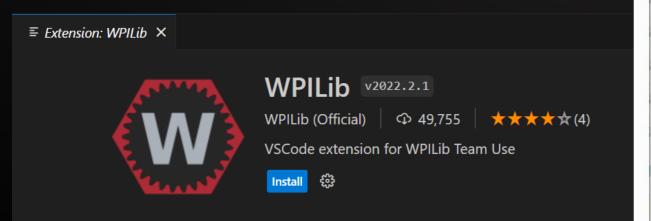
WPILib Nedir

- Bir Framework
- Worchester
 Polytechnic 2005
- cRIO 2009
- C++, Java ve LabVIEW

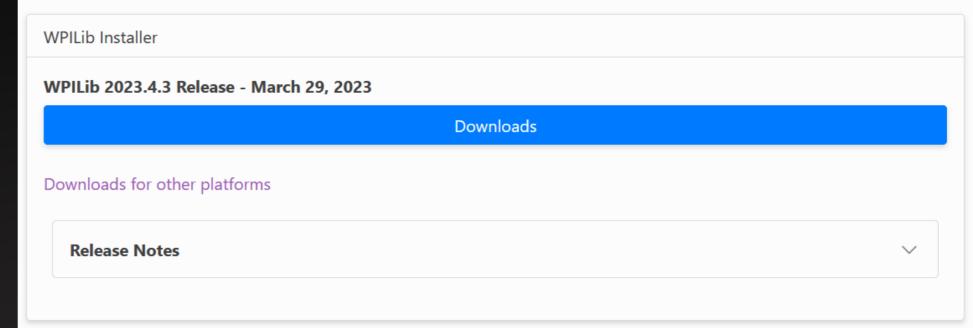


WPILibIDE

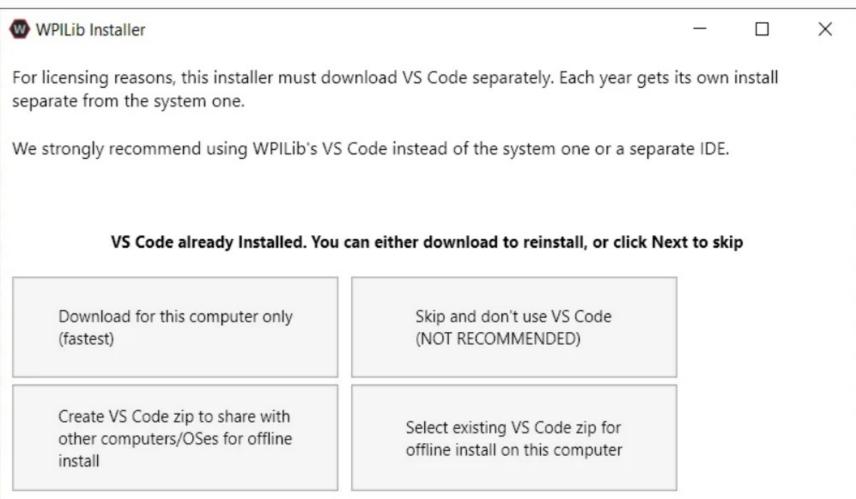
- IDE Kavramı
- Resmi Destek
 - Windows 10/11 x64
 - Ubuntu 22.04
 - macOS 11>
- VSCode Extension
- Yıllık Sürümler



Downloading

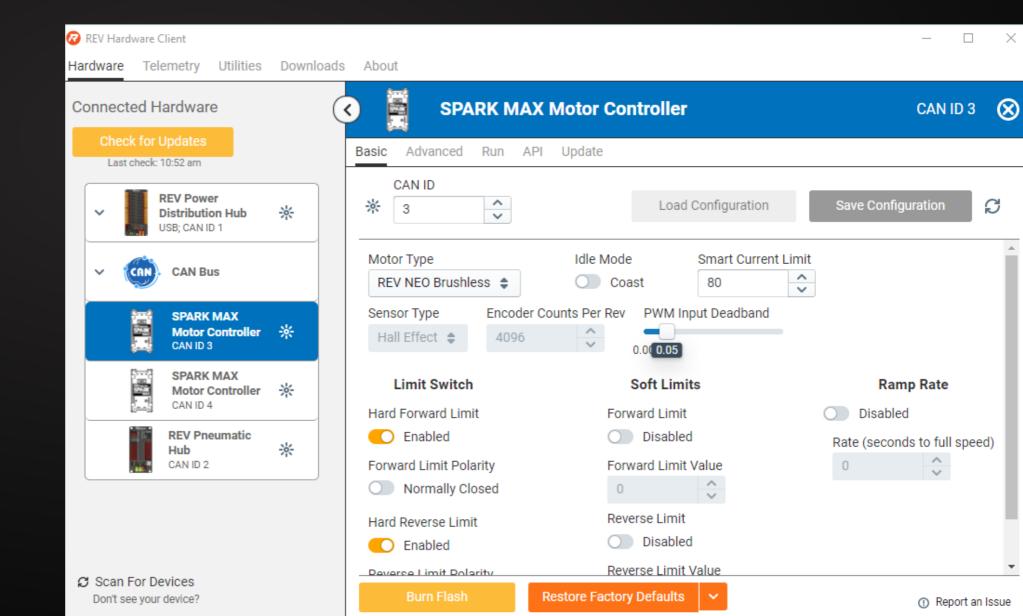


You can download the latest release of the installer from GitHub.



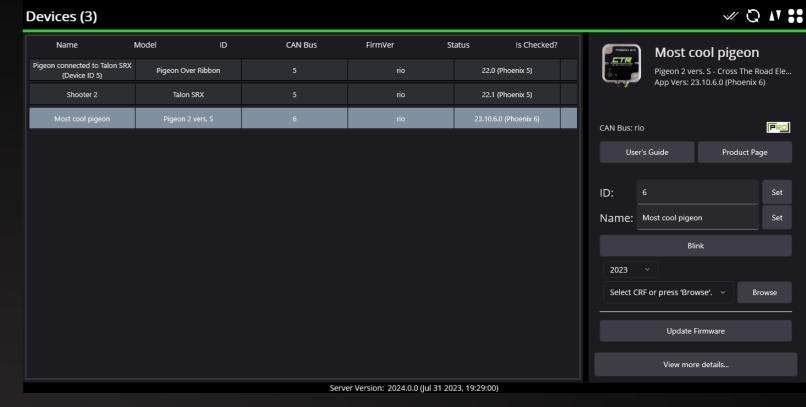
REV Hardware Client

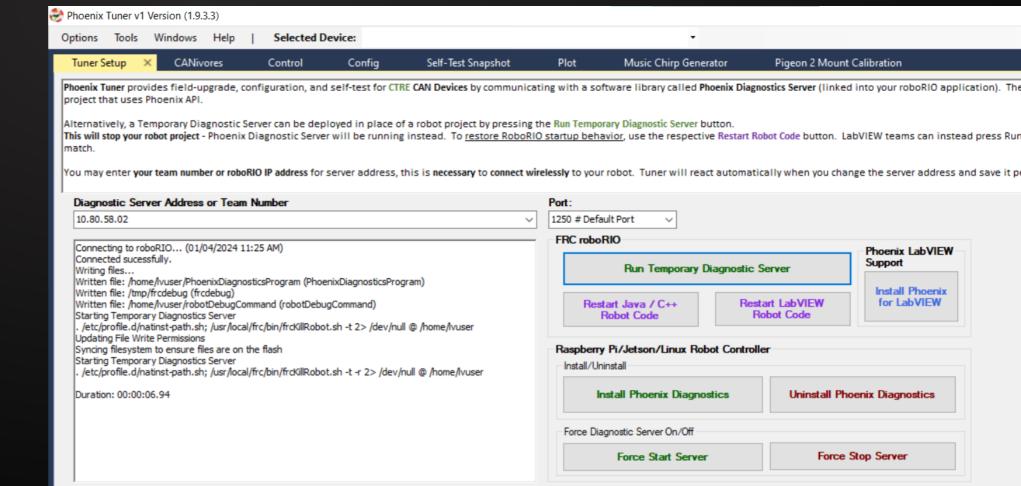
- FTC ve FRC
- REV Ürünleri
 - Control Hub
 - Spark Max
 - Power Distribution
 - Pneumatic Hub
- Update & Detection
- Config



Phoenix Tuner X

- Benzer İşlevler
- CTRE ve bazı Ürünler
 - Talon
 - Victor
 - CIM ve Falcon
- V1 ve X Farkları

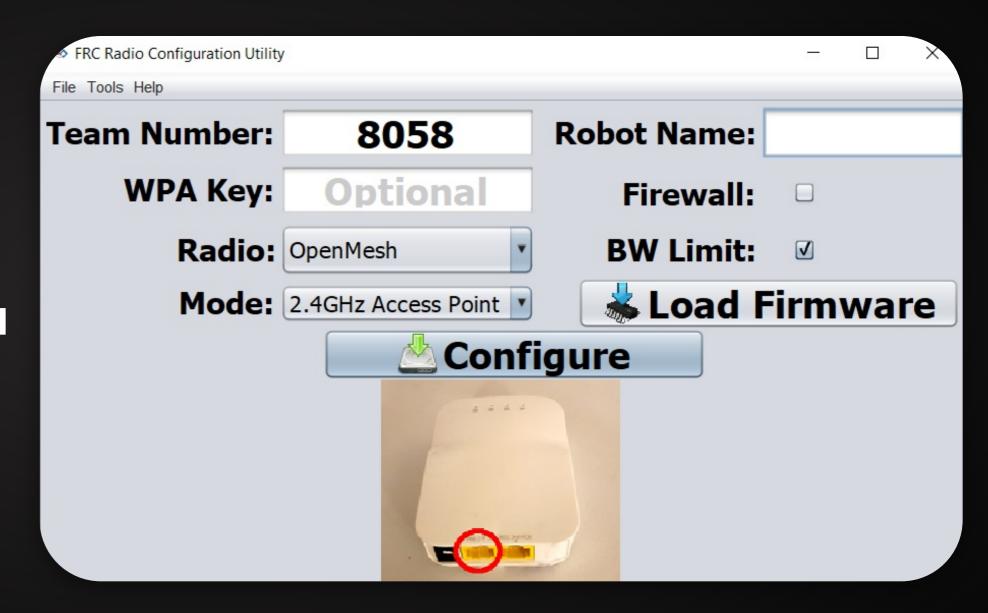




Phoenix Tuner X - 2024.0.0.0

Radio Configuration Tool

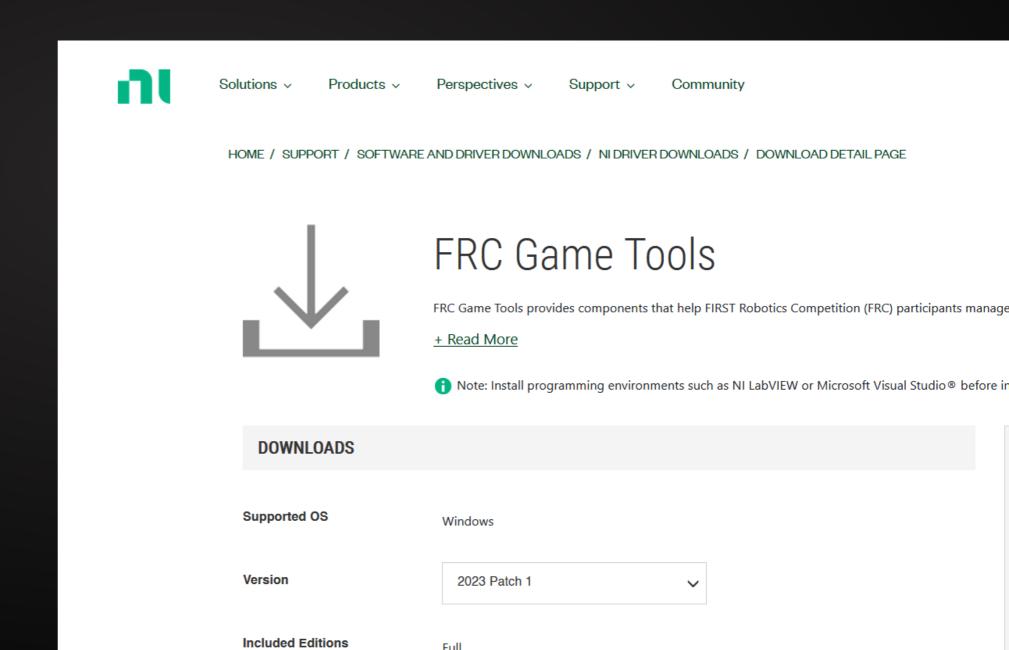
- Kablosuz ve Kablolu bağlantı
- Yarışma alanında radyo konfigürasyonu



FRC Game Tools (NI)

Reimage Tool

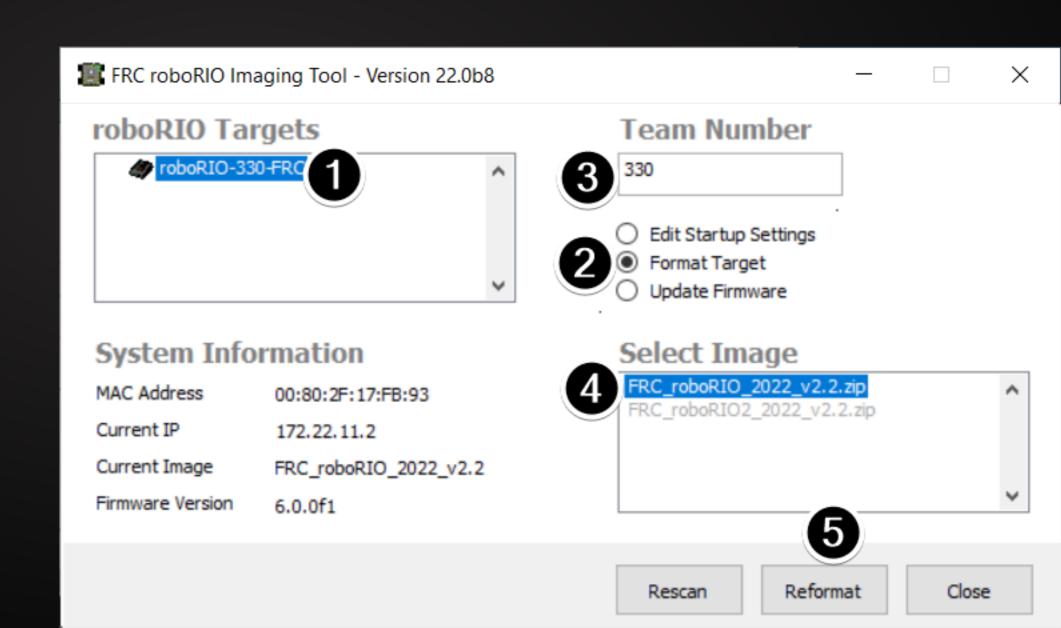
Driver Station



RoboRIO Reimage Tool

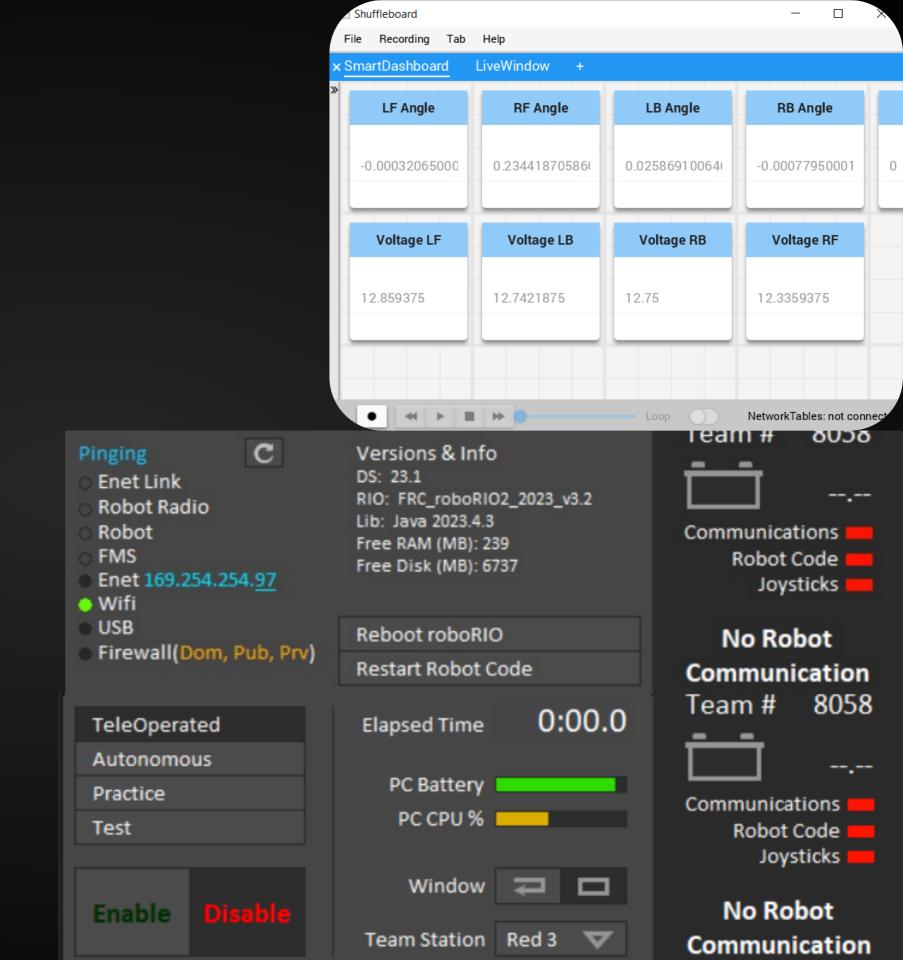
Image Kavramı

 roboRIO 1 ve 2.0 için farklar



Driver Station

- Enable/Disable
- Teleop/Otonom
- Loglar
- Boardlar ve Debug
- Joystick
- Voltaj



Programamak

CodeBase Oluşturalım

- Kurulum
- Komutlar
- Proje Oluşturma
- Vendor Dependency
- Yazmak
- Timed ve Command Base
- Sürücüleri Tanımlamak

Git(Hub)

- Git:
 - CVCS DVCS
- Github
 - Hosting
 - Collaboration
 - Publishing
 - Infrastructure
- FRC'de Önemli

